CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, November 1, 1906.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.) and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue
Nov. 1	Engineering supplies	Panama	S. & B. S.	10-18
*1	Portland cement	Lascruces, N. Mex.	S. & B. S.	10-18
*1	Dam, etc	Mitchell, Neb.	P., S. & B. S.	10- 4
3	Pumping mchny.	Norfolk, Va.	S.	10-11
7	Filters.	Philadelphia, Pa.	P. & B. S.	11- 1
*12	Boilers.	Boston, Mass.	P., S. & B. S.	10-25
*15	Dam, excavation.	N. Yakima, Wash.	P., S. & B. S.	9-27
*15	Canal, dam, tunnels.	N. Yakima, Wash.	P., S. & B. S.	9-27
*15	Steel bars, etc.	Lascruces, N. Mex.	S. & B. S.	10-18
*20	Bridge.	Winnipeg, Man.	P., S. & B. S.	10- 4

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work.	Place.	On file.	See issue
Nov. 1	Lighting, Canastota, N. Y.			Oct. 11
Nov. 2	Apparatus, Cincinnati, Ohio			Oct. 18
Nov. 10	Light plant, Lynchburg, Va.			Oct. 25
Nov. 12	Light plant, Mobile, Ala.			Oct. 25
Nov. 13	Electric supplies, Washington, D. C.			Oct. 25
Nov. 23	Light plant, Green Bay, Wis.			Nov 1
Nov. 27	Power-house, Norfolk, Va.			Nov. 1
Nov. 29	Power, Peterborough, Ont.			Nov. 1

BRIDGES.

Nov. 1	Bridge, Mount Gilead, Ohio		Oct. 25
Nov. 1	Bridge, Appleton, Wis.		Oct. 25
Nov. 2	Bridge, Reading, Pa. Advertised, Eng. News, Oct. 25.		Oct. 25
Nov. 2	Painting bridges, Indianapolis, Ind.		Oct. 25
Nov. 3	Bridge, Celina, Ohio		Oct. 25
Nov. 3	Bridges, Sedalia, Colo.		Nov. 1
Nov. 3	Bridge, Greenwood, Ohio		Nov. 1
Nov. 4	Bridge, Carrollton, Mo.		Nov. 1
Nov. 5	Bridge, Greenwood, Miss.		Nov. 1
Nov. 5	Bridge, Mt. Vernon, Ind.		Nov. 1
Nov. 5	Removing bridge, Portland, Ind.		Nov. 1
Nov. 5	Bridge, Chatham, N. B.		Nov. 1
Nov. 5	Bridges, Wichita, Kan.		Oct. 25
Nov. 5	Bridge, Rensselaer, Ind.		Oct. 25
Nov. 5	Bridges, Versailles, Ind.		Oct. 25
Nov. 5	Retaining walls, Portersville, Cal.		Oct. 25
Nov. 5	Repairs, Santa Barbara, Cal.		Oct. 25
Nov. 5	Bridge, San Jose, Cal.		Oct. 18
Nov. 6	Bridge, Peoria, Ill. Advertised, Eng. News, Oct. 11 and 18.		Oct. 11
Nov. 7	Raising bridge, Ann Arbor, Mich.		Nov. 1
Nov. 7	Bridge, Stockton, Cal.		Nov. 1
Nov. 8	Bridges, Atlanta, Ga.		Oct. 4
Nov. 8	Bridge, Independence, Mo.		Oct. 25
Nov. 10	Bridges, Wichita, Kan.		Nov. 1
Nov. 14	Bridge, Salem, Mass.		Nov. 1
Nov. 14	Bridge floor, Columbus, Ohio		Oct. 25
Nov. 20	Bridge, Winnipeg, Man. Advertised, Eng. News, Oct. 4 to 25.		Oct. 4
Nov. 21	Bridge, Perth Amboy, N. J.		Nov. 1
Nov. 29	Bridge, Gilroy, Cal.		Oct. 25

BUILDINGS.

Nov. 1	Officers' quarters, Fort Dupont, Del. Advertised, Eng. News, Oct. 4 to 18.		Oct. 4
Nov. 1	Gymnasium, Fishers Island, N. Y.		Oct. 18
Nov. 1	Officers' quarters, West Point, N. Y. Advertised, Eng. News, Oct. 18 and 25.		Oct. 18
Nov. 1	Church, New Orleans, La.		Oct. 25
Nov. 1	Temple, Paragould, Ark.		Nov. 1
Nov. 5	Engine-house, New Orleans, La.		Nov. 1
Nov. 5	Fire station, Wichita, Kan.		Nov. 1
Nov. 5	Schools, New York, N. Y.		Nov. 1
Nov. 5	Laundry building, San Francisco, Cal.		Oct. 25
Nov. 5	School, Lafayette, La.		Oct. 25
Nov. 5	Printing plant, Seymore, Ind.		Oct. 25
Nov. 7	Sub-drainage, Perth Amboy, N. J.		Nov. 1
Nov. 8	Library, Cincinnati, Ohio		Nov. 1
Nov. 8	Repairs, New York, N. Y.		Nov. 1
Nov. 8	Officers' quarters, etc., Fort Leavenworth, Kan.		Oct. 25
Nov. 8	City hall, Caruthersville, Mo.		Oct. 18
Nov. 8	Storehouses, Dover, N. J.		Oct. 18
Nov. 8	Court-house, Bloomington, Ind.		Oct. 11
Nov. 8	Quarantine buildings, Portland, Me. Advertised, Eng. News, Oct. 11 and 18.		Oct. 11
Nov. 9	Hardware, Indianapolis, Ind.		Oct. 11
Nov. 9	Refrigerator plant, New York, N. Y.		Nov. 1
Nov. 9	Repairs, New York, N. Y.		Nov. 1
Nov. 10	Theater, Chicago, Ill.		Oct. 25
Nov. 12	Heating apparatus, Superior, Wis.		Oct. 18
Nov. 12	Steam heating plant, Hayward, Wis.		Oct. 18
Nov. 12	Mess-hall, Washington, D. C.		Nov. 1
Nov. 12	Electrical equipment, New York, N. Y.		Nov. 1
Nov. 14	Buildings, Des Moines, Iowa		Nov. 1
Nov. 14	Engine-house, Hoboken, N. J.		Nov. 1
Nov. 15	Building, Washington, D. C.		Nov. 1
Nov. 16	High school, Paterson, N. J.		Nov. 1
Nov. 19	Elevator, Burlington, Vt. Advertised, Eng. News, Oct. 25 and Nov. 1.		Oct. 25
Nov. 21	Marble work, Washington, D. C. Advertised, Eng. News, Oct. 25 to Nov. 8.		Oct. 25
Nov. 29	Buildings, Fort Ethan Allen, Vt. Advertised, Eng. News, Nov. 1 to 22.		Nov. 1
Dec. 1	Building, Raleigh, N. C.		Nov. 1
Dec. 3	Leprosy station, Hawaii Advertised, Eng. News, Nov. 1 and 8.		Nov. 1
Dec. 20	Plans and specifications, Shreveport, La.		Oct. 4

WATER SUPPLY AND IRRIGATION.

Nov. 1	Laying pipe, New York, N. Y.		Oct. 25
Nov. 2	Pipe, Bloomington, Ill.		Oct. 25
Nov. 2	Water-works, Julesburg, Colo.		Nov. 1
Nov. 3	Reservoir, Pasadena, Cal.		Nov. 1
Nov. 3	Water tunnel, Chicago, Ill. Advertised, Eng. News, Oct. 18 to Nov. 1.		Oct. 18
Nov. 5	Pumps, Preston, Ont.		Oct. 25
Nov. 5	Water-works, Fargo, N. Dak.		Nov. 1
Nov. 5	Castings, Chicago, Ill.		Nov. 1
Nov. 6	Water-works, Lander, Wyo. Advertised, Eng. News, Oct. 25 and Nov. 1.		Oct. 25
Nov. 7	Water mains, New York, N. Y.		Oct. 25
Nov. 7	Pumping station, New York, N. Y.		Oct. 18
Nov. 7	Filters, Philadelphia, Pa. Advertised, Eng. News, Oct. 11, 18 and Nov. 1.		Oct. 11
Nov. 8	Pump, Yonkers, N. Y. Advertised, Eng. News, Oct. 11.		Oct. 11
Nov. 9	Tunnel, Boston, Mass. Advertised, Eng. News, Oct. 18 and 25.		Oct. 18
Nov. 10	Cocks, Washington, D. C.		Nov. 1
Nov. 12	Cast-iron pipe, Holyoke, Mass. Advertised, Eng. News, Oct. 18.		Oct. 11
Nov. 12	Boilers, Boston, Mass. Advertised, Eng. News, Oct. 25 and Nov. 1.		Oct. 25
Nov. 14	Filtering materials, Philadelphia, Pa. Advertised, Eng. News, Oct. 18 and 25.		Oct. 18
Nov. 14	Dam, Roscoe, Ohio		Nov. 1
Nov. 15	Tank, Fortress Monroe, Va. Advertised, Eng. News, Nov. 1 and 8.		Nov. 1
Nov. 15	Reservoir, Ft. Wingate, N. Mex.		Oct. 18
Nov. 21	Pumping engine, Brockton, Mass. Advertised, Eng. News, Oct. 18 to Nov. 8.		Oct. 18
Dec. 15	Excavation, Glendive, Mont. Advertised, Eng. News, Nov. 1 to 29.		Nov. 1

SEWERAGE.

Nov. 2	Sewers, Marinette, Wis.		Nov. 1
Nov. 3	Drains, Atwood, Ont.		Nov. 1
Nov. 5	Sewer, Syracuse, N. Y.		Nov. 1
Nov. 5	Sewer, Burlington, Iowa		Nov. 1
Nov. 5	Sewers, Greenville, Ala.		Oct. 25
Nov. 5	Sewer, Brookville, Ind.		Oct. 25
Nov. 3	Sewers, Decatur, Ill.		Oct. 25
Nov. 5	Sewer, Canton, S. Dak.		Oct. 25
Nov. 6	Sewers, Lander, Wyo. Advertised, Eng. News, Oct. 25 and Nov. 1.		Oct. 25
Nov. 6	Sewers, Escanaba, Mich.		Oct. 25
Nov. 6	Sewer, Virginia, Minn.		Oct. 25
Nov. 6	Sewers, Cleveland, Ohio		Oct. 18
Nov. 6	Sewers, Dawson, Ga.		Oct. 11
Nov. 7	Sewer, Cincinnati, Ohio		Oct. 18
Nov. 7	Sewers, Grand Haven, Mich. Advertised, Eng. News, Oct. 25 and Nov. 1.		Oct. 25
Nov. 7	Sewers, Baltimore, Md. Advertised, Eng. News, Oct. 25.		Oct. 25
Nov. 8	Sewers, Mobile, Ala.		Oct. 25
Nov. 8	Pump, Yonkers, N. Y. Advertised, Eng. News, Oct. 11.		Oct. 11
Nov. 9	Sewer, Boston, Mass.		Oct. 25
Nov. 10	Sewers, Merchantville, N. J. Advertised, Eng. News, Oct. 25 and Nov. 1.		Oct. 25
Nov. 12	Sewers, Cincinnati, Ohio		Oct. 25
Nov. 12	Sewers, Waterloo, Iowa		Nov. 1
Nov. 13	Sewers, Cleveland, Ohio		Oct. 25
Nov. 17	Sewers, Fairbury, Neb.		Nov. 1
Nov. 19	Sewers, Washington, Pa.		Nov. 1
Nov. 19	Sewer and outfall, Los Angeles, Cal. Advertised, Eng. News, Oct. 11 and 18.		Oct. 11
Nov. 19	Sewer, Los Angeles, Cal.		Oct. 18
Nov. 26	Sewers, Norwood, Ohio		Nov. 1
Nov. 27	Sewers, Washington, D. C. Advertised, Eng. News, Nov. 1 and 8.		Nov. 1
Dec. 1	Sewers, Rock Island, Ill.		Nov. 1

STREETS AND ROADS.

Nov. 1	Macadam, Highlands, N. J. Advertised, Eng. News, Oct. 4 to 25.		Oct. 4
Nov. 1	Plank road, Jersey City, N. J.		Oct. 25
Nov. 2	Paving, New York, N. Y.		Oct. 25
Nov. 2	Roads, Seymour, Conn.		Nov. 1
Nov. 3	Gravel road, Stafford, Conn.		Nov. 1
Nov. 3	Grading, Colorado Springs, Colo.		Oct. 18
Nov. 5	Gravel roads, Crownpoint, Ind.		Oct. 18
Nov. 5	Paving, Johnstown, N. Y.		Oct. 18
Nov. 5	Macadam, etc., Webb City, Mo.		Oct. 25
Nov. 5	Paving, Syracuse, N. Y.		Nov. 1
Nov. 5	Gravel road, Columbus, Ind.		Nov. 1
Nov. 5	Paving, Albany, N. Y.		Nov. 1
Nov. 5	Gravel roads, Petersburg, Ind.		Oct. 25
Nov. 5	Paving, Wichita, Kan.		Nov. 1
Nov. 6	Paving, Alexandria, La.		Nov. 1
Nov. 7	Gravel road, Princeton, Ind.		Nov. 1
Nov. 7	Road, Paoli, Ind.		Nov. 1
Nov. 7	Roads, Bedford, Ind.		Oct. 25
Nov. 8	Paving, Mobile, Ala.		Oct. 25
Nov. 8	Gravel, New York, N. Y.		Oct. 25
Nov. 8	Gravel roads, Chehalis, Wash.		Oct. 18
Nov. 8	Paving, Toledo, Ohio		Nov. 1
Nov. 8	Road, Brookville, Pa.		Nov. 1
Nov. 9	Paving, Buffalo, N. Y.		Nov. 1
Nov. 9	Paving, Troy, N. Y.		Oct. 25
Nov. 10	Roads, Port Townsend, Wash.		Oct. 25
Nov. 12	Paving, Cincinnati, Ohio		Oct. 25
Nov. 12	Road work, Brazil, Ind.		Oct. 25
Nov. 12	Boulevard, Norfolk, Va. Advertised, Eng. News, Nov. 1.		Nov. 1
Nov. 12	Paving, Port Chester, N. Y. Advertised, Eng. News, Nov. 1.		Nov. 1
Nov. 14	Paving, Hoboken, N. J.		Nov. 1
Nov. 16	Macadam, Decatur, Ind.		Nov. 1
Nov. 20	Grading, Cleveland, Ohio		Nov. 1
Nov. 21	Roads, New Brunswick, N. J.		Nov. 1
Nov. 21	Asphalt plant, New York, N. Y.		Nov. 1
Dec. 1	Crossing, Williamsport, Pa. Advertised, Eng. News, Nov. 1 and 8.		Nov. 1

MISCELLANEOUS CONTRACTS.

Nov. 1	Dam, etc., Mitchell, Neb. Advertised, Eng. News, Oct. 4 to 25.		Oct. 11
Nov. 1	Timber flooring, New York, N. Y.		Oct. 18
Nov. 1	Portland cement, Lascruces, N. Mex. Advertised, Eng. News, Oct. 18 and 25.		Oct. 18
Nov. 1	Engineering supplies, Panama		Oct. 18
Nov. 2	Sale of rails, Boston, Mass.		Nov. 1
Nov. 3	Grading, engine-house, etc., Intercolonial Ry.		Nov. 1
Nov. 3	Crane, Charleston, S. C.		Oct. 18
Nov. 3	Light vessel, Washington, D. C.		Oct. 18
Nov. 5	Pump, dredging, sea-wall, etc., Branford, Conn.		Nov. 1
Nov. 6	Subway substruction, Toronto, Ont. Advertised, Eng. News, Oct. 4 and 11.		Oct. 4
Nov. 6	Railway, Spain (Foreign)		Aug. 30
Nov. 6	Naval supplies, Washington, D. C.		Oct. 25
Nov. 7	Subway, Reading, Pa. Advertised, Eng. News, Oct. 25.		Oct. 25
Nov. 7	Dredging, Brooklyn, N. Y.		Nov. 1
Nov. 7	Garbage collection, Rochester, N. Y. Advertised, Eng. News, Oct. 25 and Nov. 1.		Nov. 1
Nov. 8	Greenhouses, New York, N. Y.		Nov. 1
Nov. 8	Snow removal, New York, N. Y.		Nov. 1
Nov. 8	Canal work, Albany, N. Y. Advertised, Eng. News, Oct. 11 to Nov. 1.		Oct. 11
Nov. 8	Tunnel, Boston, Mass.		Oct. 25
Nov. 9	Canal work, Albany, N. Y. Advertised, Eng. News, Oct. 11 to Nov. 1.		Oct. 11
Nov. 10	Light vessel, Washington, D. C.		Oct. 18
Nov. 10	Wooden barges, New Orleans, La.		Oct. 25
Nov. 12	Athletic field, New York, N. Y.		Nov. 1
Nov. 12	Wharf, etc., Fort Stevens, Ore.		Nov. 1
Nov. 12	Cement, Washington, D. C. Advertised, Eng. News, Nov. 1.		Nov. 1
Nov. 13	Naval supplies, Washington, D. C.		Oct. 25
Nov. 13	Cranes, Washington, D. C.		Oct. 11
Nov. 14	Dam, Roscoe, Ohio		Nov. 1
Nov. 14	Crematory, Des Moines, Iowa		Nov. 1
Nov. 14	Ordnance, Washington, D. C.		Nov. 1
Nov. 15	Entrance, Brooklyn, N. Y.		Nov. 1
Nov. 15	Railway grading, Independence, Kan. Advertised, Eng. News, Nov. 1 and 8.		Nov. 1
Nov. 15	Canal, dam, tunnels, N. Yakima, Wash. Advertised, Eng. News, Sept. 27 to Nov. 1.		Sept. 27
Nov. 15	Dam, excavation, N. Yakima, Wash. Advertised, Eng. News, Sept. 27 to Nov. 1.		Sept. 27
Nov. 15	Steel bars, etc., Lascruces, N. Mex. Advertised, Eng. News, Oct. 18 to Nov. 8.		Oct. 18
Nov. 16	Inclined railway, Niagara Falls, N. Y.		Oct. 25
Nov. 17	Sea-wall, Fort Screven, Ga.		Nov. 1
Nov. 23	Steel horses for dams, Wheeling, W. Va. Advertised, Eng. News, Oct. 25 to Nov. 15.		Oct. 25
Nov. 24	Wharves, New Orleans, La.		Oct. 25
Nov. 24	Dredging, Boston, Mass.		Nov. 1
Nov. 28	Dredging, New York, N. Y. Advertised, Eng. News, Nov. 1 to 22.		Nov. 1
Dec. 1	Undergrade crossing, Williamsport, Pa. Advertised, Eng. News, Nov. 1 and 8.		Nov. 1
Dec. 12	Ship canal, Panama		Oct. 18
Dec. 1	Garbage reduction, Spain (Foreign) Advertised Eng. News, Oct. 4 and 11.		Oct. 11
Dec. 20	Sluice gates, Wyoming Advertised, Eng. News, Nov. 1 to 29.		Nov. 1
Mar. 18 ('07)	Tunnel, New Zealand (Foreign) Advertised, Eng. News, Sept. 13 to Mar. 14.		Sept. 13
Apr. 12 (07)	Ditches, Brookings, S. Dak.		Oct. 18

CIVIL SERVICE EXAMINATIONS.

Nov. 7	Topographic Draftsman, Panama		Oct. 18
Nov. 14	Electrician, Wyoming		Oct. 25
Nov. 17	Chainman, Albany, N. Y. Advertised, Eng. News, Oct. 25.		Oct. 25
Nov. 17	Leveler, Albany, N. Y. Advertised, Eng. News, Oct. 25.		Oct. 25
Nov. 17	Rodman, Albany, N. Y. Advertised, Eng. News, Oct. 25.		Oct. 25
Nov. 17	Inspector, Albany, N. Y. Advertised, Eng. News, Oct. 25.		Oct. 25
Nov. 17	Asst. Steam Engr., Albany, N. Y.		Nov. 1
Nov. 20	Arch. Draftsmen, Washington, D. C.		Oct. 25
Nov. 20	Jr. Arch. Draftsmen, Washington, D. C.		Oct. 25
Nov. 20	Engr. Draftsmen, Washington, D. C.		Oct. 25
Nov. 20	Elec. Engrs. & Dftsmen, Wash., D. C.		Oct. 25
Nov. 20	Heat. & Ventil. Draftsmen, Wash., D. C.		Oct. 25
Nov. 21	Mech. Draftsmen, Washington, D. C.		Oct. 25
Dec. 4	Chief, Water Bureau, Philadelphia, Pa. Advertised, Eng. News, Nov. 1.		Nov. 1

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ARKANSAS PACIFIC.—This company was incorporated in Oklahoma on Oct. 16 by George D. Locke, St. Louis, Mo.; T. D. Kinman and T. D. Kinman, Jr., of Newport, Ark.; Morris Locke, Abilene, Tex.; Wm. J. Gates, St. Louis; John H. Blackburn, James Gates, David R. Locke, Thomas M. Robinson, Mangum, Okla. The capital stock is $40,000,000 and company is to build, equip and operate a line of railroad from Mangum, Okla., through Greer, Kiowa and Comanche Counties in Oklahoma, and through the Chickasaw and Choctaw Nations in Indian Territory to Fort Smith, Ark., thence through the counties of Sebastian, Franklin, Logan, Yell, Pope, Conway, White, Woodruff, Cross and Crittenden, to Memphis, with branch lines to Abilene, Tex., via Denison, and to Tulsa, Ind. T., to Clarksville, Ark., to Pine Bluff and Newport, a total length of 1,500 miles. We are officially advised that officers have been elected as follows: Pres., Geo. D. Locke; Vice-Pres., T. D. Kinman; Secy. and Treas., James Gates. A preliminary survey has been completed and the engineers are at work, now making a location survey, and contracts will be let about Feb. 1, 1907.

BALTIMORE & OHIO.—Company has announced plans for its freight cut-off around Baltimore, the line to run from Gorsuchs to Sowell, a distance of 40 miles, it is reported. D. D. Carothers is Ch. Engr., at Baltimore.

BOSTON & MAINE.—This company has decided to double-track its road from Johnsonville, N. Y., southwest to Troy, 16 miles, and to put in automatic block signals. The double-tracking will begin early next spring. H. Bissell is Ch. Engr., Boston.

BROOKVILLE & MAHONING.—We are officially informed that the MILLER CONSTRUCTION CO., of Lock Haven, Pa., has contract for 35-mile section of this proposed line between Hydes and Knox Dale, Pa. The railway will be 103 miles long, and will extend from Hydes, Elk County, to Freeport. Other contracts will be let about Jan. 1. W. W. Henshey is Ch. Engr., at Brookville, Pa. Surveys have been made and right-of-way is secured for about 50 miles.

CANADIAN NORTHERN.—JAMES CONMEE, Port Arthur, Ont., has contract for construction of branch from Nepigon, Ont., to a connection with the Grand Trunk Pacific Ry.

CANADIAN PACIFIC.—The VIGARS-SHEAR LUMBER CO., Port Arthur, Ont., has secured a contract for supplying nearly 1,000,000 ties to the C. P. R.

CHICAGO, MILWAUKEE & ST. PAUL.—A cut-off may be constructed from Berlin to Wausau, Wis. D. J. Whittemore, Ch. Engr., Chicago, Ill.

DENVER, NORTHWESTERN & PACIFIC.—D. H. Moffat, Pres., is reported as saying that the road will be built to Salt Lake City by Jan. 1, 1908. By April 1 next it will be completed to Steamboat Springs, and from that point westward the work of construction will not be difficult. The distance from Steamboat Springs to Salt Lake is about 300 miles.

EAST ST. LOUIS, COLUMBIA & WATERLOO.—We are officially advised that contracts probably will not be let until early next year for building this company's proposed line from East St. Louis to Waterloo, Ill., 23 miles in length. Surveys are partly made and right-of-way is partly secured. Capital has not been obtained yet. E. F. Schoening, Columbia, Ill., is Pres.

GLENVILLE & KANAWHA.—Robert L. Ruddell, Gen. Mgr., Glenville, W. Va., informs us that surveyors are now in the field for proposed 30-mile extension. Noted on Oct. 4.

GREAT NORTHERN.—Contracts for construction of branch between New Westminster, B. C., and Blaine, Wash., about 50 miles, have been awarded to IRONSIDES, RANNIE & CAMPBELL and the B. C. GENERAL CONTRACT CO., of Vancouver, B. C.

ILLINOIS.—The Chicago Sanitary District Trustees recommend that the Board seek permission from the next General Assembly to build a railroad along the north bank of the drainage canal from Chicago to Joliet, paralleling Atchison. The railroad is sought by John M. Ewen, who has a contract to buy the stone along the spoil banks of the canal. Isham Randolph is Ch. Engr.; Robt. R. McCormick is Pres.

INTERCOLONIAL.—Bids are asked until Nov. 3 by D. Pottinger, Gen. Mgr., Moncton, N. B., for grading and double-tracking the cotton factory branch between the old engine-house and the Kempt Road, and for grading and track laying in the new yard between Kempt Road and Windsor St.; building a 36-stall engine-house, and for the removal and dredging out of Pier No. 9 at Halifax, N. S.

IOWA & NORTHWESTERN.—This company has been incorporated in Iowa with a capital of $100,000 to build 75 miles of railroad east from Waterloo. Stephen B. Howard is Pres.; E. M. Rice, Vice-Pres., and E. C. Luther, Secy. and Treas., all of New York. The office of the company is to be at Waterloo. Surveys will be made at once. There will be a bridge over the Cedar River to cost about $10,000.

KENTUCKY NORTH & SOUTH.—This company has been incorporated with $250,000 capital to build a line from Fullerton, Greenup County, Ky., to Bristol, Tenn., about 200 miles. The line will run through Carter, Ellicott, Lawrence, Morgan, Johnson, Magoffin, Floyd, Knott and Letcher Counties, in Kentucky, and Wise, Scott, Russell and Washington Counties, in Virginia. Headquarters will be at Covington, Ky. The incorporators are T. J. Fitzpatrick, John C. Homer, R. J. Miller and Louis E. Miles, of Springfield, Ohio; Amon T. Noe, of Pittsburg, Pa.; James P. Purdum, of Portsmouth, Ohio, and Charles H. Hoglen, Dayton, Ohio.

LAKE CREEK & COEUR D'ALENE.—Company will build a railroad from Lockwood, Wash., to Chatcolet, Idaho, 28 miles, passing along Lake Creek and Coeur D'Alene Lake. The line has been surveyed from Lockwood to Lake Creek Bay, Idaho, 17 miles. The road is a Harriman line. J. P. O'Brien is Pres. and G. W. Boschke is Ch. Engr., both with headquarters at Portland, Oregon.

LEXINGTON & EASTERN.—Company will extend its line about 15 miles into timber land on Quicksand Creek in Breathitt County. W. A. McDowell is Asst. to Gen. Mgr. and Purchasing Agent at Lexington, Ky.

MADRAS & EASTERN.—Company proposes to build a railroad from Madras to Ontario, Ore., a distance of 225 miles, passing through an undeveloped timber and mineral region in the Blue Mountains. The line has been surveyed from Madras east to coal mines, 30 miles, and is under survey to Ontario. W. H. Houston, Pres., and J. W. Collins, Vice-Pres., Prineville, Ore.

MISSISSIPPI.—A press report from Gulfport, Miss., states that "the executive committee of the Progressive Business League of this city says that a right-of-way has been secured and that a new railroad, which has not yet been named, will be built from Poplarville to Gulfport. It will be standard gage, and completely equipped for freight and passenger business. The Edward-Hines Lumber Co. are the builders and will begin surveying the road at once. A charter will be applied for. For further information address Capt. J. T. Jones, of this city." Capt. Jones is Pres. of the Gulf & Ship Island R. R.

MISSOURI & NORTH ARKANSAS.—Bids were received on Oct. 15 at office of W. S. Dawley, Ch. Engr. of the ALLEGHENY IMPROVEMENT CO., the general contractor, 820 Security Bldg., St. Louis, Mo., for grading and bridging a portion or all of a 75-mile extension of the M. & N. A. R. R. from Leslie to Pangburn, Ark., as advertised in Engineering News. The contract for this work has been awarded DOWLING & McGUNNIGLE, of St. Louis, Mo.

NATCHEZ & EASTERN.—James Archbald, Ch. Engr., Brookhaven, Miss., informs us that contract for building the 22½ mile section from Brookhaven to the Homochitto River has been awarded to the WORTHINGTON CONSTRUCTION CO. Contract for 22 miles, from Natchez to Wells Creek, to O. A. GIBSON. The MISSOURI VALLEY BRIDGE CO. has contract for bridges. Surveys are made, capital obtained and right-of-way secured. The distance from Brookhaven to Natchez is 66 miles.

NEW ORLEANS GREAT NORTHERN.—Company has let a contract to C. D. SMITH & CO., of Memphis, Tenn., to build 50 miles of line from Smith's Ferry to Jackson, Miss., via Rockport and Georgetown. J. F. Coleman is Ch. Engr. New Orleans.

NORTH CAROLINA.—Ward & Hutton, of Asheville, N. C., who have purchased 35,000 acres of timber land from the Cherokee Indians in Swain County, may build about 40 miles of railroad to develop the tract, according to news report.

NORTHWESTERN RAILWAY.—W. H. Bancroft, Pres., Salt Lake City, Utah, announces that surveys have been made for this line from Huntington, Ore., north along the west bank of the Snake River to Homestead, Ore., 60 miles. Contracts for construction have not yet been awarded. The road is projected from Huntington to a point at or near Lewiston, Idaho, a distance of 150 miles.

NORTHERN COAL & COKE CO.—The Northern Coal & Coke Co., of Chicago, has appointed a committee to complete plans for building a railroad from a large tract of coal land in the Big Sandy Basin to Ashland, Ky., about 100 miles. Eugene Zimmerman, of Cincinnati, one of the principal stockholders of the coal company, states that he will bond the proposed road himself and ultimately seek entrance to Chicago and Cincinnati. Construction will begin as soon as the plans can be completed.

OVERTON COUNTY.—Company probably will begin construction this fall on the extension from Livingston to Burnside, Ky., 76½ miles. The plan has been financed, survey made and right-of-way obtained. Connection with the Southern Railway on the west and with the Queen & Crescent route on the east will be made. R. Crow is Ch. Engr., Livingston, Tenn.

ST. LOUIS & SAN FRANCISCO.—Contract for construction of cut-off between Carrollton and Irving, Tex., has been let to McCABE & STEEN, of Irving.

STATESVILLE AIR LINE.—City of Statesville, N. C., will vote on Nov. 6, on question of issuing bonds to aid this company in construction of its line from Lincolnton, N. C., via Statesville to Mt. Airy, N. C. The directors of the company are J. J. Mott, W. D. Turner, J. H. McElwee, J. F. Rhinehardt, T. F. Connor, R. E. Nooe, H. G. Chatham, N. B. Mills and P. C. Carlton.

SAVANNAH, STATESBORO & WESTERN.—A charter has been granted to this company in Georgia. The new railroad will be constructed between Atlanta and Savannah and will traverse the counties of Bulloch, Emanual, Johnson, Washington, Baldwin, Jones, Putnam, Jasper, Newton, Rockdale, DeKalb and Fulton. It will connect at Statesboro with the Savannah & Statesboro. The length of the new road is given in the charter as 210 miles, or nearly 90 miles shorter than the present route by the Central of Georgia. The capital stock is $1,000,000. The incorporators are: J. Randolph Anderson, W. W. Williamson, A. S. Guckenheimer, F. F. Walsh, Jr., W. E. O'Connor, of Chattanooga; G. S. Johnson, J. G. Blitch, J. A. Brannen, R. Simmons and D. Bacot, of Bulloch.

TEXAS.—Claude V. Birkhead, San Antonio, Tex., advises us that right-of-way has been secured for a steam railway from Carrizo Springs to Millett, 42 miles, but that no other steps have been taken.

THOMASVILLE & NORTHEASTERN.—E. M. Smith, Pres., Thomasville, Ga., informs us that survey is being made for this company's proposed line from Thomasville to Sparks or Adel, about 45 miles. Construction will be light. W. L. Harwell, Thomasville, is Ch. Engr. This company was recently chartered with $75,000 capital.

TRANS-CONTINENTAL.—A. PHILLIPS & CO., Dryden, Ont., have sub-contract for 15-mile section near Dryden.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

RUMFORD FALLS, ME.—John A. Jones, Ch. Engr, of the Rumford Falls & Bethel St. Ry. Co., at Lewiston, Me., advises us that surveys are being made for this company's proposed line from Rumford Falls to Bethel, and local lines in Rumford Falls and Mexico, about 30 miles. Contracts will not be let probably before next year. The capital stock is $120,000. The directors are: Elliott W. Howe, Everett K. Day, Orville J. Gonya, William H. Ray and Dennis J. McCoy, all of Rumford.

BOSTON, MASS.—We are officially informed that contracts for building the Boston & New York Electric Ry. will not be let for some time. Franchise is now being secured. Full details were given on Oct. 11.

HUNTINGTON (L. I.), N. Y.—The Huntington Highway Commissioners have granted a franchise for a cross-island electric railway to the Huntington Railroad Co. The franchise, as accepted, is believed to be a very good one for both the company and the town. "Actual construction is to be commenced before April 1, 1907, and at least $10,000 must be expended in labor, materials, rails, ties, etc., actually affixed to the soil before Oct. 1, 1907, and the railroad in operation before Oct. 1, 1908, but if $75,000 shall have been expended prior to Oct. 1, 1908, and the road not completed, the company is given another year. It must be completed, however, within the extended time, or the franchise will be void."

JOHNSTOWN, PA.—The ELDENBEL CONSTRUCTION CO., 42 Broadway, New York, has contract to build the Johnstown, Ebensburg & Northern Electric Ry., it is announced.

GREENVILLE, MISS.—We are officially informed that the Greenville, Leland & Rolling Forks Ry. Co. probably will not let contracts until about Jan. 1 for building its line, which will run from Greenville to Leland and to Rolling Fork, 61 miles. Survey has been made and right-of-way secured. W. R. Barkesdale, Memphis, Tenn., is Pres.

LOUISVILLE, KY.—We are officially advised that bids are asked by the Marion Contract & Construction Co. for building an extension of the Louisville & Eastern Ry. from Beechwood, Ky., to Frankfort, Ky., a distance of about 46 miles. Proposals must be made on grading, ballast, bridges, tracklaying and surfacing (including ties, rails and fastenings), and fencing right-of-way. Complete plans and specifications are on file in the office of the Chief Engineer, J. B. Walker, at the general offices of the company, Lyndon, Ky. This is an extension of time as advertised for Oct. 18.

HUNTSVILLE, ALA.—The Huntsville & Birmingham Electric Railway Co. has been incorporated to build a line 50 or 60 miles long through the North Alabama mineral belt. The officers are: C. S. Briggs, of Joppa, Ala., Pres.; L. J. Hanners, of Cullman, Vice-Pres.; T. W. Riddle, of Holly Pond, Secy.; F. T. Petty, of Huntsville, Treas. and Gen. Atty.

LIMA, OHIO.—Geo. H. Ross, Ch. Engr. of the Lima, Kenton & Marion Traction Co., Kenton, advises us that right-of-way is practically secured for building proposed line from Lima eastward to parallel the C. P. E. R. R., to Kenton, Hepburn, La Rue and Marion, 58 miles. Surveys have been made and capital obtained. Joseph A. Vandegrift, 15 Wall St., New York, is Pres. Noted on Oct. 4.

DILLONVALE, OHIO.—We are officially informed that "surveys for the Dillonvale & Ohio River Traction Co. are completed. The work of securing the right-of-way is progressing rapidly, so that those interested expect to have everything in readiness to start construction work as soon as the weather opens in the spring. The road will be built entirely on private right-of-way outside of corporation limits, and outside of those limits will have no grade over 2% and with a maximum curvature of 9°, with the exception of one 13° curve. This road will form a portion of a line to be built from Uhrichsville, Ohio, on the Pan Handle Traction Co., via Cadiz, Adena and Dillonvale, to Rayland, Ohio, on the Ohio River, where connections will be made with Steubenville, Ohio, and Wheeling, W. Va., by means of the line now being constructed from Wheeling to Steubenville by the Wheeling Traction Co. The surveys for the line from Dillonvale to Uhrichsville will be started at once. T. J. Stringer, of Rayland, is promoting the road, and W. C. Fawcett, of Wheeling, is the Ch. Engr. The surveys are being made by the Central Engineering Co., Rose Bldg., Cleveland, Ohio."

LAPORTE, IND.—A 50-year franchise has been granted to the Chicago-New York Electric Air Line Railroad. This franchise will be used by that railroad for the entrance into and terminal in Laporte for its spur track from the main line, which passes about 3½ miles south of this city. The claims of the railroad were represented at a recent meeting of the City Council by Alexander C. Miller, President of the road. It is expected this road will be in operation into Laporte by about June 1, 1907.

TAYLORVILLE, ILL.—The Mayor has signed an ordinance granting the Springfield & Southeastern Traction Co. a 50-year franchise to operate the road on the streets of Taylorville. The company now has the entire right-of-way for its proposed route from Pana to Springfield. The company has located its offices in Taylorville.

ELGIN, ILL.—It is announced that the North Shore & Western Electric Ry. Co. has been incorporated in Illinois with $50,000 capital, to build a line from Elgin, Ill., to Evanston, about 35 miles. Surveys have been made to within a few miles of Elgin and terminal arrangements have been completed in both cities. Geo. P. Merrick, 139 Washington St., Chicago, is attorney for the company. The incorporators and directors include: William C. McHenry, E. R. Fitz, George P. Merrick and William A. Love, Chicago.

MADISON, WIS.—The Madison & Fond du Lac Electric Ry. Co. has been incorporated by Franklin A. Olmstead, Ernest M. Warner, H. T. Walker, John L. Lee and J. Stuart Lyle. The direct route between Madison and Fond du Lac will touch at Windsor, Columbus, Beaver Dam and Waupun. A cross line will be built from Watertown and Fox Lake, crossing the main line at Beaver Dam, where the powerhouse will be located. The coaches will be of steel, capable of seating 72 passengers each. The company will run freight and passenger trains. The present capital is $150,000, which will eventually be increased to $3,000,000. Protected third-rail system will be used.

INDEPENDENCE, KAN.—Bids are asked until 2 p. m., Nov. 15, for preparing roadbed and sub-grade of approximately five miles of road for the Southwestern Traction Co., between Independence and Chanute, Kan. Specifications, etc., at office of Cudworth, Axtell & Co., Engrs. and Contractors, Kansas City Life Bldg., Kansas City, Mo. (Advertised, Engineering News.)

SIOUX FALLS, S. DAK.—The Sioux Falls & Sioux City Electric Railway Co. has been incorporated, with headquarters at Sioux Falls, and a capital of $1,000,000. The incorporators are: O. N. Smith, Charles Fantle, Fred C. Whitehouse, E. D. Morcom, J. W. Boyce, John A. Grose and George W. Burnside, all of this city. While the articles provide for a line through the counties of Minnehaha, Lincoln, Clay and Union, they also provide for the construction of eleven miles of track within the limits of Sioux Falls.

ODESSA, MO.—The Western Missouri Interurban Railway Co. has been incorporated with a capital of $3,000,000. The headquarters of the company are to be at Sioux Falls, S. Dak., with a business office at Clinton, Mo., where the business will be transacted. The company is formed to build a line to be operated by electricity or other motive power, from Odessa, Lafayette County, to Greenfield, Dade County, a distance of 125 miles, the line to pass through the counties of Lafayette, Johnson, Henry, St. Clair, Cedar and Dade. The incorporators are: D. J. Maugeberg, Allie W. Campbell, Frank S. Gray and George S. Halliday, of Clinton, Mo., and others.

JOPLIN, MO.—The Southwest Missouri Electric Railway Co., A. H. Rogers, Pres. and Gen. Mgr., will ask the city for a franchise to operate lines on Ninth and 16th Sts., and one of the lines will be built to Duenweg, a distance of six miles. It is believed that the new lines will be in operation within six months.

JEFFERSON CITY, MO.—The Missouri Interurban Railway Co. has been incorporated to build an interurban line between this city and Sedalia. The line has already been surveyed and the right-of-way partly secured from Jefferson City to Sedalia. The line will be 89 miles in length, and will traverse the counties of Cole, Moniteau, Cooper, and touch Morgan and Petis. Cecil W. Thomas, Rialto Bldg., St. Louis, Mo., is Secy. H. H. Humphrey, Chemical Bldg., and B. H. Colby, Security Bldg., St. Louis, are the Engrs. Estimated cost is $1,500,000. The company is incorporated at $20,000, which will soon be increased to $225,000. Following are the officers and incorporators: J. W. Mellor, Sedalia, Pres.; W. B. Meyers, Smithton, Treas.; J. H. Gunn, Otterville; J. D. Starke, Soleville; W. K. Keren, Bunceton; A. W. Nelson, Bunceton; J. H. Gementen, Cedron; Baily W. Lansdown, Centertown, Henry Frick, Prairie Home. The offices of the company are at Jefferson City.

MT. PLEASANT, TEX.—The Hoffman Heading & Stave Co. has let a contract to J. REILLY to build nine miles of tramroad. J. V. Moore, of Mount Pleasant, is Mgr.

QUEBEC, QUE.—The Quebec & Saguenay Ry. Co. has awarded contract, we are officially advised, to JOHN D. CAMERON, for building its line. The road will extend along north shore of the St. Lawrence River at a level of a few feet above high water for 86 miles. Location surveys are made and capital secured. R. Forget is Pres., at Montreal. J. F. Guay is Ch. Engr., at Quebec.

BARRIE, ONT.—Frederick Nicholls, of Toronto, has made application to Council for a 25-year franchise for a street railway in Barrie.

NEW WESTMINSTER, B. C.—The British Columbia Electric Ry. Co., Ltd., of this city, will not undertake construction of the proposed extension to Chilliwack, B. C., until next year. D. J. McQuarrie is Mgr.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

GLASTONBURY, CONN.—J. G. WHITE & CO., New York, have been engaged by the Glastonbury Power Co. to build a hydraulic filled dam, 600 ft. long and 60 ft. high, to lay two miles of 54-in. wooden stave pipe, and to erect a stone power-house.

NEW YORK, N. Y.—H. Bridgeman Smith will erect a 15-story power building, 144 × 256 ft., of brick, steel and concrete construction, at a cost of $650,000, in Brooklyn. Plans have been prepared by Frank Andrews, Arch., 25 East Third St., Cincinnati, Ohio.

Bids were received by the State Commission in Lunacy, at Albany, Oct. 24, for the wiring and fixtures in the east division of the Manhattan State Hospital on Wards Island.

The Standard Electric Construction Co., Rochester, was the lowest bidder, its bid being $6,110.

NANOCH, N. Y.—The Honk Falls Electric Co. has been incorporated with a capital of $[illegible],000, to manufacture and use electricity for lighting streets. Susan C. Dickinson, Milton L. Dickinson, of Fitchburg, Mass., and Thomas Gary, of Ellenville, are directors.

UTICA, N. Y.—The following bids were received by the State Commission in Lunacy, Capitol, Albany, on Oct. 24, for construction, heating, plumbing and electric light wiring and fixtures and feeder cables for an Acute Hospital Building at Utica: (a) for entire work; (b) deduct in case ashlar or face brick is omitted; (c) days to complete. Hudson Valley Construction Co., Troy, N. Y., (a) $[illegible]9,440; (b) $2,850; (c) 390. Mosier & Summers, 1266 Seneca St., Buffalo, N. Y., (a) $[illegible]106,100; (b) $1,500; (c) 300. Scott & Robb, Norwich, N. Y., (a) $104,117; (b) $2,[illegible]; (c) 500. Griffith & Pierce, Utica, N. Y., (a) $113,005; (b) $4,276; (c) 365. R. Richards & Son, Utica, N. Y., (a) $94,330; (b) $1,350; (c) 325. Thomas Whalen & Sons, Ogdensburgh, N. Y., (a) $98,400; (b) $2,500; (c) 300. Conners Bros. Co., Utica, N. Y., (a) $122,500; (b) $4,560; (c) 350. Pius Kerner & Son, Utica, N. Y., (a) $108,764; (b) $4,0[illegible]7; (c) 275. James E. Leamy & Co., Syracuse, N. Y., (a) $104,000; (b) $1,854; (c) 350. Nial Bros. Construction Co., Troy, N. Y., (a) $100,862; (b) $3,280; (c) 300. M. Stipp Construction Co., Binghamton, N. Y., (a) $94,785; (b) $2,300; (c) 360. Morris Kantrowitz, Albany, N. Y., (a) $99,800; (b) $2,000; (c) 300.

UTICA, N. Y.—The following was the lowest bid received on Oct. 24, by the State Commission in Lunacy, Capitol, Albany, N. Y., for the construction of a conduit between boiler house and the Nurses' Home at the Utica State Hospital, Utica: M. Stipp Construction Co., Binghamton, $3,458, work to be completed in 100 days.

CENTREVILLE, MD.—W. J. Peall, of Wilmington, Del., has secured a franchise to erect an electric light, heat and power plant here.

WESTMINSTER, MD.—J. W. LeGore will arrange for the development of water-power on the Monocacy River at Rocky Ridge and construct a dam 40 ft. high and 300 ft. long, creating a lake covering a mile of surface. It is proposed to transmit the power obtained by electricity for furnishing power to operate the Washington, LeGore & Gettysburg Electric Railroad & Power Co., in which Mr. LeGore is interested.

ROANOKE, VA.—The Roanoke Gas & Water Co. will issue $800,000 of bonds for extensive improvements to its plant. H. H. Baughman is Supt. of Wks.

NORFOLK, VA.—Bids are asked until 10.30 a. m., Nov. 27, at the Bureau of Supplies and Accounts, Navy Dept., Washington, for erecting power house, oil house, board walk, pier and cistern; making necessary changes to present rain pipes; furnishing and installing piping, lattice screens for house foundations, and replacing one foundation pier under cottage; furnishing platforms and foundations for elevated water tank; also installing above tank and tower, both of which are to be furnished by the government, including all necessary labor and materials, at the U. S. Navy Yard, Norfolk, Va.

OAK GROVE, VA.—It is reported that a municipal electric light plant is to be erected here, at a cost of $30,000.

WESTON, W. VA.—The Weston Lumber Co. will install an electric plant in its planing mill.

WRIGHTSVILLE, GA.—The citizens voted Oct. 15 to issue $35,000 of bonds for waterworks and an electric light plant.

SOCIAL CIRCLE, GA.—At an election held recently the citizens voted to issue $16,000 of bonds for the construction of an electric light plant.

ATLANTA, GA.—The Current Motor Co. has been incorporated, with a capital of $1,000,000, by E. F. Peckham, H. E. Tolman, A. Madison, W. J. Fletcher and J. H. Tolman, to operate an electric light and power plant.

DEMOPOLIS, ALA.—The city is contemplating the erection of an electric light and power plant. L. Kauffman is City Clk.

GADSDEN, ALA.—The Gadsden Gas Light & Power Co. has been incorporated, with $75,000 capital stock, to build a modern gas plant. James D. Hammond, of Gadsden, is Pres.; William B. Miller, of Birmingham, Ala., Vice-Pres. and Gen. Mgr., and T. H. Stephens, of Gadsden, Secy.

MOBILE, ALA.—Bids for the construction of a municipal lighting plant for the City of Mobile were opened Oct. 12. Only two bids were presented: McCleary Co., of Detroit, Mich., plant to be constructed at a cost of $123,000; Joseph McWilliams Co., of Louisville, Ky., plant to be constructed at a cost of $137,800. Joseph H. Lyons, representing E. G. Bruckman, of New York City, asked that a former bid filed by his firm be considered. This company offered to furnish the city with lamps at a cost of $63.50, and in ten years turn the plant over to the city in the best of condition. Mr. Bruckman proposed further to install the plant under the same roof of the municipal water-works, resulting in the saving of over $2,000 yearly in the city in salaries.

THOMASVILLE, ALA.—The Thomasville Mfg. Electric Light & Power Co. has been incorporated, with a capital of $11,000, by W. A. Scott, Jr., and John S. Henson, to construct an electric light plant here.

VICKSBURG, MISS.—City has granted franchise to Harry K. Johnson and associates for the establishment of electric light and power plant.

WIGGINS, MISS.—It is reported that F. D. Smith, of Indianapolis, Ind., is considering the establishment of ice, electric light and power plant.

YAZOO CITY, MISS.—The city has granted franchise to James J. O'Rourke, of New Orleans, La., and R. C. Huston, of Hattiesburg, Miss., to erect and operate gas plant.

SHREVEPORT, LA.—Harry K. Johnson, of Vicksburg, Miss., has received a franchise from the city of Vicksburg to furnish the city with electric light and power.

MARION, OHIO.—Alfred M. Shaw, M. J. O'Donnell, F. J. Welch and John W. Moore, of Cleveland, have applied to the City Council for a franchise to construct a conduit system electric light and power plant in this city at a cost of $150,000.

TOLEDO, OHIO.—The city has awarded to the TOLEDO RYS. & LIGHT CO. the contract to light the city for a period of ten years. William Lang is Ch. Engr.

WESTERVILLE, OHIO.—The city will issue $12,000 of bonds for the erection of a municipal light plant.

CLEVELAND, OHIO.—Plans are being prepared for a $1,000,000 light, heat and power station. J. Milton Dyer, 801 Cuyahoga Bldg., is Arch.

ANDERSON, IND.—The Indiana Ice & Dairy Co., of this city, has been incorporated, with a capital of $30,000. The company will install an electric light plant. Edward C. Handy and O. P. Crim are directors.

WEST LEBANON, IND.—It is reported that a $6,000 electric light plant is to be erected here. Ilse Hall is Town Clk.

BATTLE CREEK, MICH.—Franklin Starkey has presented a petition to the council to bond the city for $200,000 for a gas plant.

HANCOCK, MICH.—The Copper Range Consolidated Mining Co. will erect an electrical power plant at Portage Lake, to cost $500,000.

GALESBURG, ILL.—At a recent meeting of the City Council the ordinance granting the People's Electric Power Co. the right to erect and maintain an electric system in this city was so amended that the company will now accept the franchise.

SPRINGFIELD, ILL.—The Springfield Gas Light Co., it is reported, will erect a new gas plant here, at a cost of $250,000.

CHANNAHON, ILL.—D. W. Mead, Consult. Engr. and Arch., First National Bank Bldg., 164 Dearborn St., Chicago, has prepared plans for a heat, light and power plant to be built at Channahon for the Channahon Power Co., of Chicago. It will be one story, of brick, stone and iron, with composition roof, and will cost probably $100,000.

GREEN BAY, WIS.—Bids are asked until Nov. 23 by the Commissioner of Indian Affairs, Washington, D. C., for the erection of an electric light plant at the Green Bay School.

THERMOPOLIS, WYO.—Fred. W. Hart, Hydraulic Engr., of Denver, Col., is preparing plans for a large power plant to be constructed by the Asmus Boysen Co. in the Big Horn Canon near here. The plant will cost about $250,000.

WELLINGTON, KAN.—It is reported that $10,000 of bonds will be issued in order to extend and improve the electric light plant.

A franchise has been granted for piping natural gas to this city. Work will be started immediately. A. B. Cheever is City Clk.

CLINTON, MO.—W. F. HALL & CO. have contract, at $30,000, for the construction of electric light plant.

FORT SMITH, ARK.—The St. Louis & San Francisco Ry. is preparing to build an electric light plant supply depot and yards. J. F. Hinckley, St. Louis, Mo., is Ch. Engr.

WOODWARD, OKLA.—An election will soon be held to vote on the proposition to issue $150,000 of bonds for an electric light plant.

CANON CITY, COLO.—The Colorado Light & Power Co. has awarded the contract for enlarging its plant at this place and making other improvements. A new power house will be erected; the capacity of the engines and generators will be increased from 2,500 to 5,000 HP. Wm. T. Wallace is Gen. Mgr.

JULESBURG, COLO.—See under Water Supply and Irrigation.

FALLS CITY, ORE.—A franchise has been granted to the Northwestern Guarantee & Trust Co. to erect and maintain a power plant. F. A. Lucas is Mayor.

GRASS VALLEY, CAL.—The city has decided to build an $80,000 municipal lighting plant.

SANTA BARBARA, CAL.—$75,000 of bonds will be issued by the Merchants' Mutual Light & Power Co. for improvements.

AMERICAN FORK, UTAH.—The Utah County Light & Power Co. has been granted a franchise to construct and operate an electric light and power system over the highways of the county from its plant in American Fork Canyon to Bingham Junction, by way of Draper and Sandy. John H. Woolton is Mgr.

GRACE, IDAHO.—The Telluride Power Co., of Salt Lake City, has decided to construct a power plant at Grace. The water will be diverted from Bear River. The estimated cost of the proposed plant is $1,000,000.

GRANGEVILLE, IDAHO.—It is reported that the Big Baldy Mining & Milling Co. will erect a big power plant to supply power for the mines of Buffalo Hump and Salmon River Valley south of Concord.

SUMMERSIDE, P. E. I.—It is reported that a light and power plant will be erected here by the city.

PETERBORO, ONT.—Bids are asked until 4 p. m., Nov. 29, by L. K. Jones, Secy. Dept. of Railways and Canals, Ottawa, for the surplus water power at dam No. 4 on the Trent Canal.

TORONTO, ONT.—The Toronto-Niagara Power Co., Toronto, will erect shops and a transforming station on Dufferin St., in this city.

HAMILTON, ONT.—The Hamilton Terminal Co. will erect an electric station here.

PETERBORO, ONT.—A new system of street lighting will be installed at Peterboro at a cost of about $50,000.

PORT ARTHUR, ONT.—The corporation of Port Arthur, Ont., has placed contracts for an important extension to the municipal hydro-electric plant. The water wheel portion of the equipment will consist of a pair of 30-in. special Crocker turbines arranged in horizontal steel case, discharging centrally, and developing 1,300 HP. at 450 r.p.m. under 85 ft. working head, the runners being of bronze. For government there will be a type "C" Woodward water wheel governor. The contract for the turbines was placed with the JENCKES MACHINE CO., Toronto, which company also built the two turbine plants already embraced in the Port Arthur municipal plant. The turbine unit will be direct connected to an Allis-Chalmers-Bullock generator.

CHATHAM, ONT.—SYMMES & CO., Niagara Falls, Ont., have been awarded the natural gas franchise for this city, for which there has been considerable competition among local and outside firms. The gas will be brought from the Tilbury fields and the Halliday well, flowing 250,000 ft. a day, which is the property of the company awarded the contract.

WELLAND, ONT.—The Welland Electrical Co. has been incorporated, with a capital of $175,000, to manufacture electricity for light, heat and power purposes. The provisional directors include W. E. Phin, M. McAuliff and W. M. German, Welland, Ont.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

SALEM, MASS.—Bids are asked until Nov. 14, for constructing the proposed bridge to cross the Bass River, noted in Engineering News, Oct. 25. All bids received Oct. 15 were rejected. George F. Swain is Engr., 435 Marlboro St., Boston.

NEW YORK, N. Y.—The Board of Estimate and Apportionment has approved of plans for 23 bridges to be built in the Bronx. The bridges are those to be erected over the line of the New York, New Haven & Hartford R. R. between New Rochelle and 129th St., where it connects with the Third Ave. elevated road.

BINGHAMTON, N. Y.—S. M. Baird, City Engr., is preparing plans and specifications for the proposed iron bridge across Chamberlain Creek at Upper Court St.

PERTH AMBOY, N. J.—Bids are asked by the Board of Chosen Freeholders, at New Brunswick, until Nov. 21, for the removal of 450 ft. of pile trestle, now part of the bridge recently completed across the Raritan River from Perth Amboy to Sayreville, near South Amboy, and for erecting in the place thereof, as part of said bridge, three 150-ft. steel spans.

PRESCOTT, PA.—W. H. DECHANT, Reading, Pa., has secured contract awarded by the Philadelphia & Reading Ry. Co., for constructing a bridge at Prescott, on the Lebanon branch. William Hunter is Ch. Engr.

NORRISTOWN, PA.—The County Commissioners have awarded to JAMES SMITH, of Perkiomenville, contract to reinforce the bridge at East Airy St., at $3,944.

PORTLAND, PA.—We are officially advised that on Oct. 26, the Pascoe Construction Co. submitted the lowest bid, at $4,980, for constructing a 58-ft. reinforced concrete bridge having a 28-ft. arch. L. A. Francisco is County Engr.

READING, PA.—The County Commissioners have approved the petition of citizens asking that a bridge be built over the North Kill Creek, at the interesection of Jefferson and Penn Townships, where the road leading from Bernville to Rehrersburg crosses the creek. The Commissionerse have recommended that the Court authorize this bridge to be built.

SHEPHERDSTOWN, W. VA.—Norfolk & Western Ry. Co. is reported to be contemplating arrangements for construction of proposed bridge over the Potomac River at Shepherdstown, replacing present structure. It is stated that the new bridge will be larger than the present structure, which is 1,000 ft., and 100 ft. above the water; the piers will be placed on bedrock. C. S. Churchill, Roanoke, Va., is Ch. Engr.; J. E. Crawford is Bridge Engr.

AUGUSTA, GA.—The contract for construction of the steel bridge across Rae's Creek at Lake Olmstead has been awarded to the ROANOKE BRIDGE CO., of Roanoke, Va. The bridge is to be finished March 1.

GREENWOOD, MISS.—Bids are asked until Nov. 5, by the Supervisors of Leflore County, for constructing a bridge across Bowman Bayou. C. W. Crockett is Secy.

LOUISVILLE, KY.—The Louisville & Jeffersonville Bridge Co., owned jointly by the Cleveland, Cincinnati, Chicago & St. Louis Ry. and the Chesapeake & Ohio Ry. companies, is to build a steel viaduct connecting the Kentucky end of the bridge with the surface tracks of the Louisville & Nashville R. R., in order to facilitate freight interchange between the respective roads. The viaduct will be about 1,100 ft. long, and the estimated cost is $75,000. An ordinance granting the right to cross certain streets is now pending in the General Council. W. M. Duane, C. C. C. & St. L. Ry. Co., Cincinnati, Ohio, is Ch. Engr.

GREENVILLE, OHIO.—Bids are asked by the Commissioners of Mercer County, until Nov. 3, for erection of a steel or concrete bridge over the Wabash River, on the Brinkman Pike, one span, length, 60 ft. T. A. Weis is Audr. of Mercer County, Greenville.

BLUFFTON, OHIO.—The Commissioners of Wells County have appropriated $15,000, it is reported, for erection of a bridge across the Wabash River, at Main St.

MOUNT VERNON, IND.—Bids are asked by the County Commissioners, until 2 p. m., Nov. 5, for construction of a steel bridge in Bethel Township, know as the Miller Bridge.

PORTLAND, IND.—Bids are asked by the Commissioners of Jay County, until 10 a. m., Nov. 5, for the removal and relocation of a bridge in Jackson Township.

INDIANAPOLIS, IND.—C. L. COPP, of Osceola, Ind., has been awarded contract for construction of several bridges throughout the county.

ALPENA, MICH.—A steel bridge is to be built over the Ocqueoc River, in Presque Isle County, on what is known as the Alpena-Cheboygan State Road.

ANN ARBOR, MICH.—Bids are asked until 7.30, Nov. 7, by Ross Granger, City Clk., for raising the Broadway bridge.

PORTAGE, WIS.—The Chicago, Milwaukee & St. Paul Ry. Co. proposes to erect a $20,000 steel viaduct for teams and pedestrians over the Portage yard. Structure will be 24 ft. wide. D. J. Whittemore, Chicago, Ill., is Ch. Engr.; C. F. Loweth is Engr. Bridges & Bldgs.

SHEBOYGAN, WIS.—It is reported that a bridge to cost about $75,000 will be built shortly, at Sheboygan.

WICHITA, KAN.—Bids are asked until Nov. 10, by C. N. Cartwright, County Clk., for constructing the following bridges: a 30-ft. and a 60-ft. steel or arch cement bridge; a 60-ft. steel bridge, and an I-beam 40-ft. steel approach to bridge.

OMAHA, NEB.—It is reported that a new viaduct will be erected at 44th and Second Sts. Cost, $20,000. Andrew Rosewater is City Engr.

CARROLLTON, MO.—Bids are asked until Nov. 4, by the Board of County Commissioners, for constructing four steel bridges.

WACO, TEX.—The Missouri, Kansas & Texas Railway System will rebuild its bridge over the Brazos River at this town. The present bridge is 622 ft. in length, 34 ft. at the center in height, and in five spans, two 42 ft long and three 150 ft each in length. It is known as an iron plate girder structure, on cylinders.

SEDALIA, COLO.—Bids are asked by T. W. Jaycox, State Engr., Denver, Colo., until noon, Nov. 3, for construction of reinforced concrete bridges, or culverts, with earth embankments in repairs on present wagon road, from Wolhurst to Sedalia.

EVERETT, WASH.—The City Council has awarded to the EVERETT CONSTRUCTION CO. contract to construct a steel draw-bridge over the Snohomish River, at $67,925. The bridge will have two fixed spans of 110 ft. each, and a draw span of 150 ft.

UMPQUA FERRY, ORE.—Steel has been ordered for the construction of the South Umpqua bridge near Myrtle Creek, Ore., which is being changed from a wooden trestle to a steel bridge with a through Pratt truss 180 ft. long. Each of the two approaches will be built with deck-plate girders 60 ft. long. The tracks will be 30 ft. above high water.

STOCKTON, CAL.—Bids are asked until 10 a. m., Nov. 7, by the Board of County Supervisors, for constructing a wooden trestle bridge on Locust St. extension, between McCloud's and Brown's Additions of the City of Stockton, San Joaquin County.

WOODSTOCK, N. B.—It is reported that WHITMAN BREWER of St. Mary's, N. B., has contract, at $31,000, to construct the Woodstock bridge. Hon. C. H. La Billois is Ch. Comr. Bd. of Wks., Fredericton, N. B.

CHATHAM, N. B.—Bids are asked until Nov. 5, by the Hon. C. H. La Billois, Fredericton, N. B., for constructing the proposed Cain's Point bridge.

ST. CHARLES DE BELLECHASSE, QUE.—Bids have been called by the Intercolonial Railway for construction of a new steel superstructure for the bridge over the Boyen River. It is expected that the masonry will have to be repaired likewise. D. Pottinger is Gen. Mgr.; W. B. McKenzie is Ch. Engr.; A. E. Killam is Inspector of Bridges, Moncton, N. B.

FORT WILLIAM, ONT.—A bridge 400 ft. long, and to cost about $100,000, is to be built over the Kaninistikwin River at Fort William. It will be a steel and concrete roller-lift bridge.

FORT FRANCIS, ONT.—A steel draw-bridge 510 ft. long, with a 75-ft. swing span, is to be built by the Duluth, Rainy Lake & Winnipeg Ry. Co. over the Rainy River at this town. M. A. Murphy, Virginia, Minn., is Supt.

WINNIPEG, MAN.—The City Council has demanded that the Canadian Pacific Ry. Co. build another overhead bridge across its tracks. H. N. Ruttan, City Engr., estimates the cost of the work at $175,000. C. N. Monsarret, Montreal, is Engr. of Bridges.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

FORT ETHAN ALLEN, VT.—Bids are asked until 2 p. m., Nov. 29, by Lieut. M. G. Holliday, Q. M., for construction of various buildings at this place. (Advertised, Engineering News.)

ATLANTIC (Quincy post-office), MASS.—Marr Bros., of Quincy, were the lowest bidders for the erection of the school house to be erected here. Their bid was $60,895.

NEW YORK, N. Y.—Marvin & Davis, 1123 Broadway, are architects for the new garage to be erected by the Matheson Co. at Broadway and Seventh Ave., between 49th and 50th Sts. It is to be a 5-story reinforced concrete building of fireproof construction.

Bids are asked until 11 a. m., Nov. 5, by C. B. J. Snyder, Supt. of School Bldgs., for the erection of public school No. 66 on East 88th St., near First Ave.; for installing heating and ventilating apparatus

for additions in public school No. 172 on East 109 St., near Second Ave., Boro. of Manhattan, and for construction of additions to school No. 23 at Whitestone Ave. and State St., Flushing, Boro. of Queens.

MEDINA, N. Y.—Plans have been completed by Mollison & Saucie, Archs., for the New York Central R. R. Station here.

NEW YORK, N. Y.—Horace Trumbauer, Arch., Land Title Bldg., Philadelphia, has been selected to prepare plans for a 35-story addition to the World Bldg. The building will be of structural steel and stone and will measure 100 ft. square.

The contract for the steel work on the new Singer Bldg. has been awarded to MILLIKEN BROS., 11 Broadway.

Bids were opened Oct. 29 at the office of the Supervising Arch., Treasury Dept., Washington, D. C., for the construction of the U. S. Government Hospital at the Immigrant Station, Ellis Island. Bids were as follows: Chas. M. Peckworth, Hudson St., New York, $584,385; F. W. Carlin Construction Co., Brooklyn, $639,000, time 16 mos.; Daniel J. Ryan, Brooklyn, $606,730; Wm. F. Holding, New York, $770,000, 475 working days; Northeastern Construction Co., New York, $563,375; United Contracting Corporation, Jersey City, N. J., $762,848; Time, Sept. 1, 1908, unless otherwise stated.

Bids are asked until 10 a. m., Nov. 8, by Theodore A. Bingham, Police Commissioner, for making general repairs at various police stations of New York.

Bids are also asked until 10 a. m., Nov. 9, by the police commissioner for making general repairs at various police stations.

Bids are asked by C. B. J. Snyder, Supt. of School Bldgs., until 11 a. m., Nov. 12, for installing electrical apparatus in public school No. 8 on Hicks St., between Poplar and Middagh Sts., Borough of Brooklyn, and for installing electrical equipment in school No. 30 on Conover St., between Walcott and Sullivan Sts., Brooklyn.

SARATOGA SPRINGS, N. Y.—Plans have been completed by R. Newton Brezee, Arch., for an $80,000 arcade.

HOBOKEN, N. J.—Bids are asked by James H. Londrigan, City Clk., until 8 p. m., Nov. 14, for the erection of an engine house.

PATERSON, N. J.—Bids are asked by Wm. H. Kearns, until Nov. 16, for erection of the new public high school to be situated on the plot bounded by Hamilton St., De Grasse St., Lee Pl. and Main St.

PERTH AMBOY, N. J.—Bids are asked by James Knox Taylor, Supervis. Arch., Treasury, Washington, D. C., until 3 p. m., Nov. 7, for construction of sub-drainage system at U. S. post-office and custom house here.

PHILADELPHIA, PA.—W. R. DOUGHERTY, 40th and Walnut Sts., has been awarded the contract to erect the 4-story brick and concrete dormitory at the University of Pennsylvania. It is to be of fireproof construction.

Bids were opened Oct. 26, at the office of James Knox Taylor, Supervis. Arch. Treasury, Washington, for a passenger elevator in the post-office building, Philadelphia. The only bid received was that of the Otis Elevator Co., 17 Battery Pl., New York, at $11,800; time, March 24, 1907. The bid of the Marine Engine & Machine Co., New York, was received too late to be considered.

The Department of Public Health and Charities will erect an Insane Asylum here at a cost of about $2,000,000. It is proposed to buy the property bounded by Vine, Poplar, Broad and Schuylkill Sts.

PITTSBURG, PA.—The L. H. Smith Woodenware Co., Eighth St., will erect a 6-story brick building, 18 x 58 ft. Estimated cost, $50,000.

BALTIMORE, MD.—Bids will be asked about Jan. 1, for the erection of the Y. M. C. A Building. Jos. Evans Sperry, 409 Calvert Bldg., is Arch. It is to be a 7-story fireproof building, 113 x 140 ft.

WASHINGTON, D. C.—Frank Miles Day & Bro. Archs., 925 Chestnut St., Philadelphia, Pa., have submitted tentative sketches to the Commissioners of the District of Columbia for tuberculosis hospital for which Congress appropriated $100,000.

Bids are asked by Capt. H. L. Pettus, Q. M., Washington, D. C., until 2 p. m., Nov. 15, for constructing a brick outbuilding at Battle-ground, National Cemetery.

Bids are asked until 2 p. m., Nov. 12, by Capt. John Stephen Sewell, Q. M., Constructing Officer, Soldiers' Home, Washington, for the erection of a fireproof mess hall and dormitory building at the U. S. Soldiers' Home.

Bids were opened Oct. 24, at the office of Elliott Woods, Supt. of the U. S. Capitol and Grounds, for furnishing 95,000 4-in. terra-cotta blocks and 140,000 6-in. terra-cotta blocks. Bids were as follows: O. W. Ketcham, Home Life Bldg., Washington, $15,795; Haydensville Co., Haydensville, Ohio, $16,800; W. A. Mills, Twelfth and G Sts., N. W., Washington, for the Whitaker Fireproofing Co., Waynesboro, Ohio, $14,823; National Fireproofing Co., Colorado Bldg., Washington, $15,210; Federal Clay Mfg. Co., $21,563.

NORFOLK, VA.—See under Light and Power Plants.

NORFOLK, VA.—It is reported that a high school is to be erected here at a cost of $200,000.

RICHMOND, VA.—Plans have been completed by John Keevan Peebles, Arch., 11 Lowenberg Bldg., Norfolk, for the erection of an apartment house to be erected by the company of which D. Lowenberg, Norfolk, is Pres., and Ben Lowenberg is Secy.-Treas. Estimated cost, $25,000.

RALEIGH, N. C.—Bids probably will be received Dec. 1 for the erection of a 7-story stone, steel and concrete temple, 78 x 90. Estimated cost, $100,000. John C. Drewey is Grand Secy.

MOBILE, ALA.—A Danovich & Sons are completing arrangements for the erection of proposed 8-story hotel, at a cost of $250,000, adjoining present hotel.

ALEXANDRIA, LA.—It is reported that Jos. E. Bentley will erect a $250,000 fireproof hotel.

NEW ORLEANS, LA.—Bids are asked by Chas. R. Kennedy, City Comptroller, until 1 p. m., Nov. 5, for demolishing building occupied by Engine No. 7, on Dauphine St., and the premises No. 929 Blenville St., and the erection of a brick engine house on the premises No. 929 Blenville St.

SHREVEPORT, LA.—Bids are asked by Clarence W. King, Arch., Majestic Bldg., Shreveport, La., for construction of 5-story sanitarium building.

The Centenary College will be removed from Jackson, La., to Shreveport, La. A site of 40 acres has already been selected at Shreveport, and work will begin immediately on the grounds and buildings. P. M. Welsh and J. H. Jordan have been appointed on a committee to make the preliminary arrangements. Both of Shreveport.

MEMPHIS, TENN.—It is reported that the Memphis Terminal Co. will erect a depot at a cost of $5,000,000. T. E. Sullivan is Gen. Mgr.

CINCINNATI, OHIO.—Bids are asked until Nov. 8, by the Board of Trustees of the Public Library, for the erection of a Carnegie branch library building on Hamilton Ave., near Chase St. Clarence L. Stanley is Clk.

CLEVELAND, OHIO.—Plans have been prepared for a museum of art building to be erected here, at a cost of $750,000.

GRAND RAPIDS, MICH.—The congregation of St. Adalbert's Church has decided upon general plans for a new church. The cost will be $100,000.

OBERLIN, OHIO.—Bids were received Oct. 9, for the erection of a Library at Oberlin College, but the bids were all in excess of the appropriation. Patton & Miller, Archs., 140 Dearborn St., Chicago.

WARRENSVILLE, OHIO.—George W. Carmichael, Akron, Ohio, was the lowest bidder for the erection of the four brick and stone buildings for the Board of Public Service. Bid was $218,000. J. M. Dyer, Cuyahoga Bldg., Cleveland, is Arch.

EVANSVILLE, IND.—A contract has been awarded to WALTER MELVIN, 125 Monroe St., for the erection of an immense new warehouse for the Illinois Central Railroad in this city.

FRANKFORT, IND.—The Frankfort Hospital Association has ordered plans for the erection of a modern hospital building. Mrs. R. M. Sims is Pres.

INDIANAPOLIS, IND.—The Grand Lodge of Masons has decided to erect a new building. C. W. Praher, Secy.

Plans for the erection of a lodge building, which is to be erected by the Indiana Red Men, have been submitted. Estimated cost, $600,000. Thos. G. Harrison is Ch. of Records.

MOORES HILL, IND.—UNKERFER & CO., of Dayton, Ohio, have been awarded a contract for the construction for the new administration buildings for the Moores Hill College.

JACKSON, MICH.—Searles, Hirsh & Gavin, Archs., 1430 Schofield Bldg., Cleveland, Ohio, have prepared plans for a 2-story brick, steel and stone school building for the Board of Education. Estimated cost, $100,000.

CHICAGO, ILL.—Plans are being prepared by Beers & Beers, Archs., 168 Michigan Ave., for an administration building to be erected at Indiana Ave. and 51st St., for the Chicago Refuge for Girls, 5024 Indiana Ave. It is to be a 3-story brick and stone building of fireproof construction. Estimated cost is $200,000.

The Estate of Potter Palmer is not contemplating the erection of a hotel to replace the Palmer House. Noted in issue of Oct. 25.

MILWAUKEE, WIS.—Leiser & Holst, Archs., 402 Germania Bldg., have completed plans for a 4-story apartment house to be erected by Louis Auer at State and 15th Sts.

Bueming & Dick, Pabst Bldg., will erect for the William Berger Co., at Florida and Grove Sts., a new building at a cost of $100,000.

DES MOINES, IOWA.—Bids are asked by W. E. Cole, Q. M., until 2 p. m., Nov. 4, for the construction of various buildings at Fort Des Moines.

DES MOINES, IOWA.—County taxpayers will vote on issuing $150,000 of bonds for a new jail, site and heating plant needed by the county to complete improvements begun with the new courthouse.

OWATONNA, MINN.—Louis H. Sullivan, Arch., Auditorium Mldg., Chicago, is preparing plans for a bank, store and office building to be erected here by the National Farmers' Bank. It is to be a 3-story brick and stone building, 68 x 150 ft., at an estimated cost of $100,000.

WICHITA, KAN.—Bids are asked by R. N. Dorr, City Clk., until 5 p. m., Nov. 5, for the construction of a fire station at Hillside Ave. and Second St.

OMAHA, NEB.—Herman Cohn is to erect a 3-story building on North 16th St., extending an entire block from Capitol Ave. to Davenport, a length of 240 ft. Estimated cost, $300,000. John Latenser, 422 Bee Bldg., is Arch.

FARGO, N. DAK.—The Supervising Architect of the Treasury, Washington, has awarded to the OTIS ELEVATOR CO., 17 Battery Pl., New York, contract for the installation of an electric passenger elevator in the new post-office building, Fargo, N. Dak., at their bid of $4,975; time of completion, Feb. 1, 1907.

KANSAS CITY, MO.—Bids were opened Oct. 26, at the office of James Knox Taylor, Supervis. Arch., Treasury, Washington, for a hydraulic mail lift in the post-office building, Kansas City, Mo. The only bid was that of the Otis Elevator Co., 17 Battery Pl., New York, at $5,110; time of delivery, July 15. The bid of the Marine Engine & Machine Co., New York, was received too late to be considered.

JOPLIN, MO.—The BARTLETT STEEL CO. has been awarded the contract for the steel work on the Campbell building.

ST. LOUIS, MO.—A permit was recently granted to the Joliet Realty Co., for the erection of the 8-story fireproof building, which is to be occupied by Butler Bros. The JAMES BLACK MASONRY & CONTRACTING CO. has the contract. Estimated cost, $1,000,580.

The Joseph Gerardi Hotel Co. is to erect an 11-story hotel at King's Highway and Maryland Ave. The MONARCH REALTY & BUILDING CO. has the contract. Estimated cost, $1,000,000.

FORT SMITH, ARK.—Sanguinet & Staats, Archs., Dallas, Tex., have completed plans for a 6-story office building to be erected by W. J. Echols, at a cost of $125,000.

HOT SPRINGS, ARK.—Architects have been invited to submit plans and specifications to the School Board for a $100,000 high school building. Geo. B. Cook is Supt.

PARAGOULD, ARK.—Bids are asked by B. H. Cronley, Treasurer Masonic Lodges, until Nov. 4, for the erection of a Masonic temple in this city.

HOUSTON, TEX.—It is reported that a union passenger station will be erected here by the Houston Belt & Terminal Railway Co. at an estimated cost of $1,500,000. C. E. Ensminger is Engr. in Charge, and M. Sweeney is Gen. Mgr.

GUTHRIE, OKLA.—It is reported that W. H. Coyle, a local capitalist, is at the head of an enterprise to erect a $100,000 hotel here.

WATONGO, OKLA.—The BARTLETT STEEL CO., of Joplin, Mo., has been awarded the contract for the steel work required in the erection of the courthouse here.

SPOKANE, WASH.—J. K. Dorr, Arch., Empire State Bldg., is preparing plans for an 11-story steel and fireproof office building for August Paulsen. Estimated cost, $500,000.

SANTA ROSA, CAL.—An election will be held Nov. 6, to decide on issuing $280,000 of bonds for the erection of the new court house.

RIVERSIDE, CAL.—Frank A. Miller will erect a $1,000,000 hotel in the Yosemite, to replace the Stoneman House, which was destroyed by fire several years ago.

LONG BEACH, CAL.—The Elks here have organized a $75,000 building association to build a lodge house.

LOS ANGELES, CAL.—Preparations are being made for the erection of a Catholic cathedral which is to be erected here. The plans were prepared by Maginnis, Walsh & Sullivan, Archs., 100 Boylston St., Boston, Mass. The plans provide for one of the best examples of Catholic church architecture to be found in this country.

NAPLES, CAL.—A club of Los Angeles clubmen will erect a clubhouse here at a cost of $100,000.

OAKLAND, CAL.—Oscar T. Dunning will erect an 8-story class A building at Kearney St. and Union Square, at a cost of $200,000. N. Blaisdell is Arch., and THOMPSON & STARRETT, Railway Exchange Bldg., Chicago, have contract.

SAN FRANCISCO, CAL.—The Supervising Architect of the Treasury, Washington, has awarded to C. A. INGERSOLL, San Francisco, Cal., contract for repairs on the post-office building, at $9,600; time of completion, Feb. 15.

The AMERICAN-HAWAIIAN ENGINEERING & CONSTRUCTION CO. has been awarded the contract to erect for D. S. Dorn a 9-story class A building on Turk St., between Hyde and Leavenworth Sts., at a cost of $110,000. The building is to be used as a hotel.

Mrs. Charlotte Clarke will erect a $140,000 4-story hotel building on the south side of Turk St., west of Larkin. The building is to be of reinforced concrete, and will be put up by the SCOFIELD CONSTRUCTION CO. Meyer & O'Brien, Chronicle Bldg., are the Archs.

James D. Phelan is to erect a 10-story steel building on Market St., at a cost of $3,750,000.

TORONTO, ONT.—The loss by the fire that destroyed the transportation building, the grand stand, and cattle sheds on the exhibition grounds last week is officially estimated at $130,000, with total insurance of $112,000. The buildings are to be rebuilt at once.

A new building for the Department of Domestic Science in connection with the University of Toronto is to be erected at Avenue Road and Bloor St. by Mrs. Massey-Treble. Cost, $100,000.

WINNIPEG, MAN.—The Bank of Nova Scotia has purchased the corner of Portage and Garry Sts., opposite the Free Press Bldg., here, and will erect a $200,000 office building thereon.

VANCOUVER, B. C.—KELLY BROS. have been awarded the contract to erect a building for the Canadian Bank of Commerce at Hastings and Grangeville Sts. Estimated cost, $400,000.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Plans, specifications and bidding sheet for boiler plant of the Charles River Basin Commission, as advertised, are on file at office of Engineering News, New York. Hiram A. Miller is Ch. Engr. Bids are asked until Nov. 12.

MIDDLETOWN, N. Y.—The citizens voted against the proposition to issue bonds amounting to $125,500 for laying water mains and enlarging filter plant. George R. Wengenroth is Clk. Bd. Water Comrs.

LOCKPORT, N. Y.—We have been officially advised that C. N. Stainthrope & Co., 126 Main St., Lockport, submitted lowest bid, at $492,000, to the Common Council for constructing water-works system in Lockport.

SUMMIT, N. J.—It is reported that the contract for laying about 7,650 lin. ft. 14-in. c. i. force main has been awarded to D'AMATO & STEFFENALLI, 37 [illegible] St., Newark, at $3,748. Edward [illegible] City Engr.

PHILADELPHIA, PA.—Bids are asked until noon, Nov. 7, by the Department of Public Works, for preliminary filters at the Belmont station, in the 24th Ward, and the Torresdale station, in the 41st Ward. Contract 39. Specifications and sheet are on file at office of Engineering News, New York.

WASHINGTON, D. C.—Bids are asked until Nov. 10, by the Commissioners of the District of Columbia, for furnishing and corporation cocks.

FORTRESS MONROE, VA.—Bids are asked by Capt. R. H. C. Kelton, Q. M., until Nov. 15, for the construction of a [illegible] gal. steel water tank at Fortress Monroe. (Advertised, Engineering News.)

APPALACHIA, VA.—The Clear Water Co. has secured franchise to build water-works system. The supply is to be obtained from Ben's Branch in Stone Mountain. E. J. Prescott, of Big Stone Gap, Va., is Pres.

HARTSVILLE, S. C.—Arrangements will be made at once for the construction of water-works. J. J. Lawton is Chn. W. Wks. Com.

COLUMBUS, GA.—We are officially advised that preliminary surveys are being made for a municipal water system. It will be some time before contracts are let. The system will consist of a sedimentation and filtration reservoir, and will cost about $250,000. John C. Cook is Secy. Bd. of Water Comrs.; M. M. Moore is City Clk.; J. L. Ludlow, Charlotte, N. C., is Cons. Eng.

WRIGHTSVILLE, GA.—See under Light and Power Plants.

CORDELE, GA.—City will vote on Nov. 14 on the issuance of $10,000 of bonds for extending water-works and $35,000 for extending sewerage system. B. H. Palmer is Acting Mayor.

NEW ORLEANS, LA.—We are officially advised that on Oct. 25, the Central Improvement & Contracting Co. submitted the lowest bid, at $3,600, for constructing eleven cypress cisterns at Fort St. Philip. Capt. B. T. Clayton is Q. M.

BILOXI, MISS.—The city is in need of 8, 10 and 12-in. c.-i. pipe, also valves, cocks and specials necessary for extension of water mains. O. G. Swetman is City Clk.

ROSCOE, OHIO.—Bids are asked by the State Board of Public Works, Charles B. Perkins, Ch. Engr., Columbus, Ohio, until noon, Nov. 14, for building a dam across the Walhonding River, located six miles west of Roscoe, Ohio; also, a separate bid for the repairing of the present dam.

CLEVELAND, OHIO.—Bids are asked until Nov. 20, by William G. Phare, Village Clk., 204 American Trust Bldg., Cleveland, for furnishing material and laying a 6-in. water pipe in a portion of Stratford Road and Plaisted Court, Cleveland Heights.

MASSILLON, OHIO.—We are officially informed that the city will decide on the question of issuing bonds for constructing water-works system, in November. A. W. Inman is Supt., Massillon Water Supply Co., Massillon.

CULVER, IND.—The Culver City Water-Works Co. has been organized to construct a water-works plant here. Dr. O. A. Rea is interested.

SUTTON'S BAY, MICH.—It is reported that the question of installing water system here is now before the Town Council.

CHICAGO, ILL.—Bids are asked until Nov. 5, by William L. O'Connell, Comr. Pub. Wks., for furnishing and delivering at the city pipe yards, about 101 tons special castings for c.-i. water pipe, ranging in diameter from 6 to 36 ins.

FARGO, N. DAK.—Bids are asked until 5 p. m., Nov. 5, by N. C. Morgan, City Audr., for constructing extension of water system at Fargo. Samuel F. Crabbe is City. Engr.

LEIGH, NEB.—C. A. BEATY, of Leigh, has the contract for constructing municipal water-works system, at $8,000.

PROCTOR, MINN.—The engineers of the Duluth, Missabe & Northern Ry. Co., are completing plans for a reservoir to have a storage capacity of 10,000,000. The reservoir is to be constructed at Proctor, as the water supply at this town is very poor, coming only from a small creek. The water to be used by the company at Proctor will be taken from Lake Superior about six miles distant, and a pumping station will be erected at West Duluth, near the intake. J. W. Kreitter is Supt., Proctor; H. L. Dresser is Ch. Engr., Duluth.

GLENDIVE, MONT.—Bids are asked until 10 a. m., Dec. 15, by the U. S. Reclamation Service, for excavating about 500,000 cu. yds. for 74 miles of laterals and 34 miles of waste ditches. (Advertised, Engineering News.)

CENTRALIA, MO.—This city has granted franchise to A. H. Baldridge to install water-works system, subject to a vote.

KANSAS CITY, MO.—The Metropolitan Water Co., which has secured franchise from the West Side City Council, will expend $600,000 on improvement to plant. Lee Riley is Supt.

TRENTON, MO.—It is reported that the Council has under consideration the question of laying about 3,300 ft. of 6-in. water mains. W. S. Rynearson is City Clk.

KANSAS CITY, MO.—The Board of Public Works has given instructions to the Department of Water-Works to develop plans for constructing a new intake from the river, at the Quindare pumping station. Steve Mitchell is Ch. Engr.

LAKE VILLAGE, ARK.—The city will construct water-works and an electric-light plant in the near future.

HOUSTON, TEX.—It is reported that the city is considering making improvements to water-works plant recently purchased, and upon investigation the following is proposed: Vastly increased storage facilities; six artesian wells in the city park to be connected up, and the construction of an earthen reservoir to hold 50,000,000 to 100,000,000 gallons.

BROWNSVILLE, TEX.—The proposition of Owen Ford, of St. Louis, Mo., to install an electric light plant and complete water-works system in Brownsville at a cost of $100,000, if the people of the town will subscribe $25,000 of the stock of the company, has been accepted.

TAYLOR, TEX.—The International & Great Northern R. R. Co. intends to construct a reservoir at Flag Springs, about two miles east of Taylor. A. L. Bowers is Engineer in charge of water service.

YUKON, OKLA.—A. STROP, of Yukon, has a contract with the Chicago, Rock Island & Pacific Ry. Co. to construct a reservoir ten acres in extent and twelve ft. deep one mile south of Yukon to furnish water for engines. The pond will have a storage capacity of 14,000,000 gallons of water. J. B. Berry, Chicago, is Ch. Engr.

JULESBURG, COLO.—Bids are asked until Nov. 2, for construction of water-works and electric light systems in Julesburg. A. F. Perrier is City Clk.; C. H. Meeker is Engr., McCook, Neb.

SEATTLE, WASH.—Bids are asked until Nov. 3, by the City for laying water mains in Grand Boulevard, at an estimated cost of $49,000. The contract includes about five miles of pipe, mostly of wooden stave. R. H. Thomson is City Engr.

TACOMA, WASH.—A water main district has been decided upon for the western part of the town. It will be known as District No. 513 and will embrace Lawrence, Cedar, Adler, Junett and Pine Sts., between South 29th and Tenth Sts. Six-in. c.-i. mains will be laid. The estimated cost of the total improvement is $22,214, and the cost per lot is $27.55. Frank L. Davis is City Engr.

POMEROY, WASH.—The City Council has decided to construct a reservoir on the hill east of town. The reservoir will be 30 × 40 × 17 ft., and will hold 150,000 gallons.

OAKLAND, CAL.—The City Council has passed an ordinance appropriating $27,000 with which to commence the work of installing a salt-water pumping plant for fire protection and street sprinkling.

PASADENA, CAL.—Bids are asked by F. S. Allen, Secy., Rubio Canon Land & Water Association, 301 Slavin Bldg., Pasadena, until noon, Nov. 3, for the construction of a 2,000,000-gallon reservoir.

OGDEN, UTAH.—On Oct. 16, representatives of the Harriman system awarded contract to the COREY BROS. CONSTRUCTION CO., of Ogden, for construction of the pipe line from Taylor's Canyon to the Ogden yards, a distance of 5½ miles. The amount of the contract is approximately $25,000, but the total cost to the railroad company will be $75,000.

CALDWELL, IDAHO.—It is reported that THOMAS FINNEGAN, of Caldwell, has contract for constructing extension to water-works. R. S. Madden is Mayor.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Nov. 7, by Bird S. Coler, Pres. Boro. of Brooklyn, for constructing sewers and sewer basins in various parts of Brooklyn.

SENECA FALLS, N. Y.—The State Canal authorities have approved the plans of the Village of Seneca Falls for extension of its sewerage system over the Cayuga and Seneca Canal. A line of 12-in. c.-i. sewer pipe will be laid on Ovid St., and will be carried over the canal by means of a wrought-iron independent truss, to be built by the village. E. L. Guyon is Clk of the Bd. of Trustees of Seneca Falls.

DEPEW, N. Y.—The Village Clerk has been instructed to advertise for bids for constructing the proposed sewer on Gould Ave. and Preston St.

SYRACUSE, N. Y.—Bids are asked until 1.30 p. m., Nov. 5, by the Board of Contract and Supply for constructing a 12-in. pipe sewer in Boyden St., from Pattison to Vine Sts., and for an 8-in. sewer in Glen Haven. Frank J. Schnauber is City Engr.; George J. Metz is City Clk.

TRENTON, N. J.—Bids are asked until Nov. 6, by the Common Council for constructing sewers in Brunswick and New York Aves. Harry R. Salter is City Clk.; C. C. Haven is City Engr.

JERSEY CITY, N. J.—The Street and Water Board has decided to construct a sewer in Merseles St.

The City has appropriated $210,000 for a relief sewer in the "Horseshoe" section. Charles Van Keuren is Ch. Engr.; George P. Bouton is City Clk.

PLAINFIELD, N. J.—The following bids were received Oct. 22 for constructing the Southside Sanitary Sewer: Peter Morgan, Poughkeepsie, N. Y., $27,069; Harrison Construction Co., Newark, $27,346; W. B. Travell, Plainfield, $29,969; Antonio Costa, Orange, $30,786; E. A. Matthews, 13 Park Row, New York, N. Y., $33,382; Denallo & Kleinberg, Kingston, N. Y., $34,314; Callahan & Chamberlain, Elizabeth and Westfield, $35,785; Sloan & Lutz, Newark, $38,238. A. J. Gavett is St. Comr.; J. T. MacMurray is City Clk.

WASHINGTON, PA.—Bids are asked by the Town Council, until Nov. 19, for construction of a system of municipal purification works. This is the second call for this work, the first being postponed. J. K. Weir is Clk.; O. K. Taylor is Boro. Engr.

EASTON, PA.—We are officially advised that plans are to be prepared by Williams, Proctor & Potts, 17 Battery Pl., New York, N. Y., for sewer system, sewage disposal works plant, and water-works system. Surveys on these have not yet been commenced. The same engineers will submit a report to the authorities regarding an electric lighting system.

BALTIMORE, MD.—The Sewerage Commission, Calvin W. Hendrick, Ch. Engr., 904 American Bldg., Baltimore and South Sts., has commissioned Henry Brauns, Professional Bldg., 330 North Charles St., to prepare plans and specifications for sewage-pumping-station to be erected in connection with the sewer system now in course of construction.

WASHINGTON, D. C.—Bids are asked until noon, Nov. 27, by the Commissioners of the District of Columbia, for constructing sewers in the District. (Advertised, Engineering News.)

EAST RADFORD, VA.—The contract for the construction of sewage system, for which $18,000 is available, has been partially let to C. MARKLEY, of Roanoke, Va.

ALEXANDRIA, VA.—It is reported that the city will expend about $20,000 for improvements to sewer system.

WHEELING, W. VA.—Contract for laying a crock sewer has been let to M. FLANAGAN, and extension of brick sewer has been awarded to N. C. HAMILTON & SON. T. L. McGranahan is Clk. Bd. Pub. Service.

CAMDEN, S. C.—The city has engaged Frederic Minshall, Abbeville, S. C., to prepare plans and specifications for proposed sewer system. H. Y. Carrison is Mayor.

CORDELE, GA.—See under Water Supply and Irrigation.

BIRMINGHAM, ALA.—The Board of Aldermen has let the contract to C. B. BURKHALTER, of Birmingham, for laying a complete sewer system through the streets of North Birmingham. Bonds to the amount of $60,000 have been issued for this work.

CHATTANOOGA, TENN.—Contract for laying sewer in Eleventh St., from Clift to A Sts., has been let to GUILD & CO., Chattanooga, at $5,270. Bids were received Oct. 16.

LOUISVILLE, KY.—The city has been recommended to adopt a sewer system providing for the following projects: For the ultimate construction of an intercepting sewer along the Ohio River and a purification and disposal plant; for a new southern outfall sewer about five miles long, from Dry Run, near Floyd and Lee Sts., to Ohio River, costing $1,710,700, draining approximately 4,500 acres, or about 40% of area of city; a branch sewer to South Louisville, 2⅔ miles long, costing $165,000; construction of twelve miles of new sewers to relieve flooded section, costing $553,900; trunk sewer to drain the northwestern district; drainage of lowland north of High Ave., from 21st to 27th Sts.; construction of intercepting sewer along Beargrass Creek to receive sewage and first flushings from either side of creek, costing $303,700; improvement of channels of Beargrass Creek and its branches, costing $35,000; improvement of old bed of Beargrass Creek between "Cutoff" and Jackson St.; for combined system for district reached by Ferndale Ave., Castlewood Ave., etc.; separate system for Crescent Hill, Clifton, Cherokee Park, etc., and system of storm drains in this territory; for 14 miles of lateral sewers, costing $413,700. This system provides for the construction of 60 miles of sewers at a total of cost of $4,000,000. J. B. F. Breed is Ch. Engr., 503 Equitable Bldg., Louisville; Samuel M. Gray, Providence, R. I., and Harrison P. Eddy, 11 Dean St., Worcester, Mass., are Consult. Engrs.; Paul C. Barth is Mayor.

TOLEDO, OHIO.—This city is reported to have decided to construct a 54-in. sewer in Auburndale. Frank I. Consaul is Ch. Engr. Bd. Pub. Service.

NORWOOD (Cincinnati post-office), OHIO.—Bids are asked until Nov. 26, by the Board Public Service, for furnishing material and constructing a sanitary sewer in portions of Forest and Ridgewood Aves. and several streets; also on same date for constructing sanitary sewer in portions of Cortland and Wyer Aves. and other streets. L. H. Gebhart is Clk.

AKRON, OHIO.—J. W. Payne, City Engr., estimates that cost of constructing an 8-in. sewer on Martin Ave., from Market to Exchange Sts., and paving Martin Ave. with brick, will be about $13,664.

CLEVELAND, OHIO.—Bids are asked until Nov. 20, by William G. Phare, Village Clk., 204 American Trust Bldg., Cleveland, for furnishing material and constructing a sanitary sewer in a portion of Plaisted Court, Cleveland Heights.

DAYTON, OHIO.—The Board of Public Service has let contract to WILLIAM McCARTHY & CO. for constructing storm sewers, at $150,000.

MARIETTA, OHIO.—The Board of Public Service has let contract to G. A. STANFIELD, Marietta, for 3½ miles of sewer mains and 2½ miles of laterals. A. F. Cole is City Engr.

ALLIANCE, OHIO.—JOHN C. DEVINE has been awarded contract to lay 48-in. Broadway sewers, at $5,650, and 36-in. at $5,654.

BRIDGEPORT, OHIO.—D. A. JACONETTY has been awarded contract to construct sewer system in Bridgeport. W. W. Baggs is Village Clk.

HAMILTON, OHIO.—W. H. LOUTHAN, on Oct. 24, was awarded contract by the Board of Public Service for construction of storm sewers in Progress, Franklin, Wayne, and Edgewood Aves. and Urban, North D, E, F and G Sts. Mr. Louthan also got the contract for the construction of the Main St. protection storm sewer.

INDIANAPOLIS, IND.—The Board of Public Works has ordered plans and specifications for a large trunk sewer in North Indianapolis. The estimated cost is $125,000. Charles Brown is Engr.

PEKIN, ILL.—The Council has under consideration the question of constructing a $5,000 brick and stone sewer.

ROCK ISLAND, ILL.—Bids are asked until Dec. 1, by the City Clk., for constructing sewers and catch basins in District No. 2. George W. McCaskrin is Pres. Bd. Local Improvements.

MARINETTE, WIS.—Bids are asked until Nov. 2 by the Board of Public Works, at the office of the City Clerk, for constructing sewers in portions of Carney and Menekaune Aves. Jacob Wittig is Chn.

FOND DU LAC, WIS.—J. RASMUSSEN & SON, of Oshkosh, Wis., was awarded contract on Oct. 19, for constructing the Eleventh St. sewer, at $12,013. Six other bids were submitted.

BURLINGTON, IOWA.—Bids are asked until Nov. 5 by the City Clerk for constructing vitrified pipe sewer in Marshall St. J. F. Winters is City Engr.

WATERLOO, IOWA.—Bids are asked until Nov. 12 by the Board of Public Service for the new drainage ditch in Cedar Township, to be 4,360 ft. long. J. J. Rainbow is Clk.

FORT DODGE, IOWA.—It is reported that the contract for constructing a sewer in 18th St. has been awarded to C. A. KLING, of Fort Dodge, at 57 cts. for 10-in. pipe, 53 cts. for 8-in. pipe and $28 each for catch basins. C. H. Reynolds is City Engr.

ST. PETER, MINN.—L. W. Rundlett, City Engr. of St. Paul, has prepared plans for the proposed sewer system for St. Peter. H. N. Benson, City Clk.

ATCHISON, KAN.—The BOYD CONSTRUCTION CO., Kansas City, Mo., has secured contract to construct brick and concrete sewers in Districts B and N. C. A. Hawk is City Clk.

FAIRBURY, NEB.—Bids are asked by F. L. Rain, City Clk., until Nov. 17 for the construction of an 8-in. sewer lateral in Sewer District No. 7.

TRENTON, MO.—D. B. KELLEY, of St. Joseph, Mo., has contract for constructing sewer in Sewer District No. 4, at $7,401, approximating 8,441 ft. of 8-in. and 2,206 ft. of 12-in. pipe. AMERICAN LIGHT & WATER CO., New England Bldg., Kansas City, Mo., has contract for constructing sewer in Sewer District No. 5, at $5,256, approximating 290 ft. 6-in., 5,186 ft. 8-in., 500 ft. 10-in. and 1,479 ft. 12-in. pipe.

DERMOTT, ARK.—It is reported that plans are being prepared for a sewerage system for Dermott, to cost $15,000.

GREENVILLE, TEX.—A sewage system, to cost $4,000, is proposed for Greenville. H. L. Carpenter is Secy. Sewerage Comm. W. B. Hindman is Mgr.

SHAWNEE, OKLA.—An election will be held Nov. 6 to vote on the question of issuing bonds amounting to $165,000 for proposed sewers. F. D. Brown is City Engr.

DENVER, COLO.—We are officially advised that the GAFFY & KEEFE CONSTRUCTION CO., Exchange Bldg., has contract, at $43,986, for constructing Harman No. 1 sewer district. Other bids submitted at same time, Oct. 25, were: Gibbons, Hughes & Cramer, 441 West Colfax Ave., Denver, $46,744; Doyle & Schwartz, Colorado Springs, $47,430; The Colorado Co., Nassau Bldg., Denver, $47,987; J. Fred Roberts, 1850 16th St., Denver, $45,073; Hamilton & Co., Commonwealth Bldg., Denver, $49,066. John B. Hunter is City Engr.

RIVERSIDE, CAL.—SCHWAB & HAGEN have been awarded the contract to construct a sewer system in the Lewis Villa tract and Merrifield tract.

ATWOOD, ONT.—Bids are asked until Nov. 3 by T. G. Ratcliff for construction of the Partridge drain improvement in Elma Township.

HAMILTON, ONT.—The City Engineer has presented to the Sewer Commission a report on the proposed trunk sewers and a septic tank system for pumping sewage from the recently annexed section of city in the east end, and submitted two estimates, one to cost $101,152, the other $71,129.

WINNIPEG, MAN.—Col. H. N. Ruttan, City Engr., estimates the cost of the proposed trunk sewer for Ward 7 at $72,000.

VICTORIA, B. C.—The Council is considering the question of constructing an extensive sewer system in Oak Bay.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids are asked until noon, Nov. 8, by M. Craven, Comr. of Street Cleaning, for removing of snow and ice during winter of 1906-1907 in the Boroughs of Brooklyn and the Bronx.

ROCHESTER, N. Y.—Bids are asked until 10 a. m., Nov. 7, by the Board of Contract and Supply, for collection and sanitary disposal of the garbage and dead animals of the City of Rochester for a period of five years, beginning Jan. 1, 1907. F. X. Pifer is Clk. (Advertised, Engineering News.)

UTICA, N. Y.—JOHN ZIMMERMAN has been awarded contract, at $3,200, for collecting garbage for three years.

PORTSMOUTH, VA.—This city is considering establishment of crematory to cost about $12,000 and have a capacity to dispose of between 15 and 20 tons of garbage daily. Boscum Sykes is City Engr.

DES MOINES, IOWA.—Bids are asked until 2 p. m., Nov. 14, by W. E. Cole, Q. M., for constructing a crematory building and garbage crematory complete, at Fort Des Moines.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

EFFINGHAM FALLS, N. H.—The contract for grading and surfacing with gravel a portion of Main St. has been awarded to FRANK W. BROOKS, of Freedom. Bids were received Oct. 16.

HAMPTON FALLS, N. H.—We are officially advised that JAMES E. WATKINS, Amesbury, Mass., has been awarded contract for surfacing a section of road at Hampton Falls with gravel.

SPRINGFIELD, MASS.—Dwight St. probably will be extended from its junction with Lyman St. to Liberty St., and eventually to North St. Charles M. Slocum is City Engr.

LEE, MASS.—The contract for contsructing state highway between Lee and Stockbridge has been awarded to J. W. POLCARO, Pittsfield, Mass., at $24,050.

Contracts for constructing state roads in Lee has been let to M. L. CAMARCO, at $7,839.

STERLING, MASS.—R. F. HUDSON has been awarded contract, at $3,954, for constructing state highways in this town.

ROCKPORT, MASS.—Contract has been awarded to L. C. CARCHIA, of Boston, at $3,995, for construction of state highways in Rockport.

SEYMOUR, CONN.—Bids are asked until Nov. 2 by the Board of Selectmen for grading and constructing four sections of road. George A. Divine is Chn.

STAFFORD, CONN.—Bids are asked until Nov. 3 by the Board of Selectmen for constructing a gravel road in this town. M. W. Leonard is First Selectman.

NORTH STONINGTON (New London post-office), CONN.—James H. Macdonald, Highway Comr., is reported to have awarded to AHERN BROS., of North Stonington, contracts for building 8,350 lin. ft. of turnpike at 25⅜ cts. per lin. ft.; 3,050 lin. ft. of grading and graveling at 52 cts., and 1,700 lin. ft. grading gravel-telford road at 87 cts. per lin. ft., or a total of $5,238. George K. Crandall is City Surv.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Nov. 21, by Bird S. Coler, Pres. Boro. of Brooklyn, for erecting an asphalt plant.

SYRACUSE, N. Y.—Bids are asked until 1.30 p. m., Nov. 5, by the Board of Contract and Supply for grading Allen St., from East Genesee to East Fayette Sts., and for paving West Castle St., from South Saline St. to Cortland Ave., with asphalt, vitrified brick, bitulithic, creo-resinate wood blocks or trap-rock macadam. Frank J. Schnauber is City Engr., George J. Metz is City Clk.

BUFFALO, N. Y.—Bids were received Oct. 19 by F. G. Ward, Comr. of Pub. Wks., for paving various streets with (a) round edge fire clay brick on macadam base, (b) round edge shale brick on macadam base, (c) round edge fire clay brick on concrete base, (d) round edge shale brick on concrete base. Following are the lowest bids: Paving Urban St., between Fillmore Ave. and Moselle St., (a), (b), (c) and (e), F. V. E. Bardol, 401 Morgan Block, $27,400 each; paving Mystic St., between Hopkins and Abby Sts., (a) and (b), F. V. E. Bardol, $12,800 each, (c) and (d) $12,300 each; for paving Beacon St., between Hopkins and Abby Sts., (a) and (b), F. V. E. Bardol, $13,900 each, (c) and (d) $13,400 each. H. P. Burgard & Co. bid lowest for paving Urban St., with California asphalt, at $31,000. The German Rock Asphalt & Cement Co., D. S. Morgan Bldg., bid $12,940 for standard asphalt on Mystic St. H. P. Burgard bid $13,000 for asphalt on Beacon St. The bids have been referred to the Committee on Streets.

BUFFALO, N. Y.—Bids are asked until 11 a. m., Nov. 9, by the Department of Public Works, for paving Klaus St., from Metcalfe to Jones Sts., 1,333 sq. yds.; Goethe St., from Broadway to Reiman St., 3,412 sq. yds.; Imson St., from Seneca St. to North end of Imson St., 2,813 sq. yds.; Alabama St., from South St. to land occupied by the Erie R. R. Co., 1471 sq. yds., and Vincennes St., from Mackinaw to Tecumseh Sts., 3,261 sq. yds. Francis G. Ward is Comr.

PORT CHESTER, N. Y.—Bids are asked until 8 p. m., Nov. 12, for 9,700 sq. yds. brick paving on North Main St., with curb setting and storm sewers. J. A. Kirby & Son are Engrs., Port Chester. (Advertised, Engineering News.)

ALBANY, N. Y.—Bids are asked by the Board of Contract and Supply, Albany, until 3 p. m., Nov. 5, for the improvement of Van Woert St., from western end of present pavement to a point about 703 ft. west of west line of Swan St. The work includes grading, curbing and paving the carriageway with vitrified paving blocks, repairing and laying sidewalks with flags and vitrified bricks and building receiving basins. Isidore Wachsman is Clk. of Bd. Walter E. Melius is City Engr.

ATLANTIC CITY, N. J.—Contract for constructing the Hammonton-Atsion Road, 6½ miles long, has been let to C. W. MATHIS & CO., Tuckerton, N. J., at $30,508. E. D. Rightmire is Co. Engr.

NEWARK, N. J.—The STANDARD BITULITHIC CO., 253 Broadway, New York, N. Y., has secured contract, at $2.10 a sq. yd., for paving a portion of Central Ave. with bitulithic.

WOODBURY, N. J.—The STANDARD BITULITHIC CO. has been awarded contract to pave Delaware St. with bitulithic, at $15,885.

NEW BRUNSWICK, N. J.—Bids are asked by the Board of Freeholders of Middlesex County, until Nov. 21, for the construction of the Cheesequake Creek Road, a stone road, about two miles in length.

SOUTH ORANGE, N. J.—The construction of a parkway between Orange Park and South Orange Ave. is reported under consideration. The probable cost of improvement is $58,660.

HOBOKEN, N. J.—Bids are asked by the Council, until 8 p. m., Nov. 14, for repaving Willow Ave., from 17th St. to the railway crossing at Willow Ave. and Grand St., from First to Second Sts. James H. Londrigon is City Clk.

CAMDEN, N. J.—The BARBER ASPHALT PAVING CO., Land Title Bldg., Philadelphia, Pa., was awarded several contracts on Oct. 23, for asphalt paving, at $1.53 a sq. yd. There were no other competitors. L. E. Farnham is City Engr.

WILKES-BARRE, PA.—POST & CO., of Wilkes-Barre, are reported to have secured the contract for paving the state road between Ashley and Sugar Notch, at about $9,000.

WILLIAMSPORT, PA.—Bids are asked until noon, Dec. 1, by J. J. Galbraith, City Clk., for construction of an undergrade crossing under the P. & E. R. R. tracks at Campbell St. James F. Fisher is City Engr. (Advertised, Engineering News.)

YORK, PA.—About 60 miles of paving will be constructed at an estimated cost of $300,000. M. G. Collins is Chn. St. Com.

BROOKVILLE, PA.—Bids are asked until Nov. 8, by Joseph W. Hunter, State Highway Comr., Pittsburg, for constructing 1,150 ft. of road for Young Township, Jefferson Co.

SCRANTON, PA.—The contract for paving Pittston Ave. has been awarded to the STANDARD BITULITHIC CO.

BRANDYWINE, DEL. — THEOBALD HERSCH, of Narberth, Pa., has contract at $6,350, to resurface the Faulk Road in New Castle County. The section is 1¼ miles long, 12 ft. wide and the surfacing will be eight inches deep. Francis A. Price is State Highway Comr.

BALTIMORE, MD.—The municipal Board of Awards has awarded contract to WILLIAM M. ELDER, 229 St. Paul St., for paving a portion of Catherine St. with vitrified brick at his bid of $10,555. The United States Wood Preserving Co., 29 Broadway, New York, was the lowest bidder, at its bid of $3.59 per sq. yd., for paving a portion of Holliday St. with wooden blocks, and P. Flanigan & Son, Lexington and Calvert Sts., were the lowest bidders, at their bid of $1.15 per sq. yd., for macadamizing Ninth St., from North to Clinton Aves.

WASHINGTON, D. C.—The Commissioners of the District of Columbia, in their annual estimate, have asked for $80,000 for the paving, constructing and repairing streets within city limits and $150,000 to be expended for the same purpose on suburban roads. The Superintendent of Highways has submitted the following schedule, stating how the money should be expended. The larger contracts are to be as follows:

To pave streets in Northwest section: T St., from 18th St. to Florida Ave., $5,500; 23d St., from F to G Sts., $3,750; Bates St., from First to Second Sts., $5,000; E St., from 18th to 19th, $4,200; E St., from 19th to 20th, $5,400. Northeast section: 12th St., from B to C, $4,500; B St., from 11th to 13th, $11,100; C St., from Massachusetts Ave. to Ninth St., $16,000; E St., from Seventh St. to Maryland Ave., $7,000; Florida Ave., from Fifth to Eighth Sts., $20,000; B St., from 13th to 14th, $9,800; Eleventh St., from C to D, $3,200; Fifth St., from G to H, $4,100; North Carolina Ave., from 13th to 14th Sts., $10,700. Southeast section: Virginia Ave., from Second to Fifth Sts., $16,200; Tenth St., from I to L, $6,000; Ninth St., from E to K, $15,800; Ninth St., from K to Virginia Ave., $3,700; Massachusetts Ave., from 13th to 14th Sts., $8,000; Pennsylvania Ave., from Eleventh to 14th Sts., $21,000; Georgia Ave., from Eighth to Ninth Sts., $4,700; South Carolina Ave., from 13th to 15th Sts., $9,000. Southwest section: Canal St., north side, from B to D, $6,900; South Capitol, from C to E, $13,000; Eighth St., from H to Water, $6,800; K St., from 4½ to Sixth, $6,500; Tenth St., from E to G, $7,000. Georgetown section: 29th St., from K to M, $8,200; 31st St., from K to Canal, $5,400.

County roads: Lincoln Road, grade and improve, $5,000; Kalorama Road, 18th St. to Chamblain Ave., pave, $3,000; Randolph St., North Capitol to First St., west, pave, $8,250; Albemarle St., east of Connecticut Ave., grade, $10,000; Sheriff Road, grade and macadam, $3,000; Seaton Pl., North Capitol to First St., west, pave, $8,150; Pennsylvania Ave., extended, macadamize, $3,000; Newark St., Cleveland Park, grade and improve, $1,000; 16th St., extended, grade and improve, $20,000; Kenyon St., Sherman Ave. to 13th St., grade and improve, $4,000; Rhode Island Ave., east of Brentwood Road, grade and improve, provided the land necessary be dedicated without cost, $10,000; 15th St., Florida Ave. to Euclid St., grade and improve, $5,000; Nichols Ave. and Livingston Road, macadamize, $2,000; 13th St., Euclid to Fairmont, pave, $3,400; streets in American University Park and Wesley Park, grade and improve, $4000; Massachusetts Ave., Wisconsin and Nebraska Aves., grade and improve, $20,000; Shepherd St., east of Eighth St., grade and improve, $8,000; T St., North Capitol to Lincoln Road, pave, $2,100; Rittenhouse St., Brightwood Ave. to Blair Road, grade and improve, $6,000; Bowen Road, macadamize, $5,000; Fourth St., Elm to W, pave, $5,700; Adams Mill Road, grade, $10,000; Harvard St., west of 14th, pave, $5,000; Chesapeake St., Wisconsin Ave. to Grant Road, grade and improve, $4,000; Rhode Island Ave., North Capitol to First St., west, pave, $9,600; Van Ness St., Connecticut Ave. to Pierce Mill Road, grade and improve, $7,200; Reno Road, grade and improve, $3,000; Upton St., east of Old Pierce Mill Road, grade and improve, $14,000.

WASHINGTON, D. C.—The contract for laying cement sidewalks throughout the city has been awarded to the RUDOPH S. BLOME CO., 79 Dearborn St., Chicago, Ill., by the Commissioners. The proposal of the company was $1.13 a yd., which was the lowest received. More than $90,000 worth of cement sidewalks are to be laid within the next year, and preparations are now being made by the officials of the District engineer department.

NORFOLK, VA.—Bids are asked until noon, Nov. 12 by H. B. Goodridge, Chn. Jamestown Boulevard Commission, 190 Water St., Norfolk, for grading and furnishing stone for construction of a boulevard from the limits of the City of Norfolk to the Jamestown Exposition Grounds, a distance of about 4¼ miles. (Advertised, Engineering News.)

ALEXANDRIA, LA.— Bids are asked until Nov. 6 by the Mayor and Board of Aldermen for paving sidewalks with concrete and curbing with cement or brick on portions of several streets.

CLINTON, TENN.—It is reported that R. L. PETERS, of Knoxville, has secured the contract for about 13 miles of macadam road, at about $40,000. J. K. P. Wallace is Chn. County Comrs.

CLEVELAND, OHIO.—Bids are asked until Nov. 29 by W. G. Phare, Village Clk., 204 American Trust Bldg., Cleveland, for furnishing material and improving a portion of Stratford Road, Cleveland Heights, by grading, draining and macadamizing.

CINCINNATI, OHIO. — All bids for improvement of Clifton Ave. have been rejected by the Board Public Service. New bids will be asked for soon.

TOLEDO, OHIO.—Senate Ave. will be paved for one and one-half miles beyond Riverside Park, at a cost of about $55,000. Bids are asked until Nov. 8 by the Board Public Service, for improving Orchard St. Frank I. Consaul is Ch. Engr., Bd. Pub. Service.

ASHTABULA, OHIO.—Bids are asked until Nov, 13, by the Board of Public Improvements, for improving Bell St. Lewis A. Amsden is City Engr.

AKRON, OHIO.—The contract for paving Adams St., from Upson to Forge St., has been awarded to BARNETT & O'MARR.

COLUMBUS, IND.—Bids are asked until Nov. 5, by the Board of County Commissioners for constructing 2¾ miles gravel road. W. A. Morris is County Engr.

PAOLI, IND.—Bids are asked until Nov. 7, by the Board County Commissioners, for constructing 7,653 ft. road. A. B. Ham is County Audr.

DECATUR, IND.—Bids are asked by the Board of Commissioners of Adams County until Nov. 16 for construction of a macadamized road in Root Township, known as the William R. Hoekmeyer road. C. D. Lewton, County Audr.

PRINCETON, IND.—The Board of Commissioners of Gibson County will be ready for bids about Dec. 1, for about 1,190 ft. of cement walk; eleven ft. wide, and concrete coping 18 × 18 ins.

Bids are asked until Nov. 7, by the Board of County Commissioners for constructing about eleven miles of gravel road. Estimated cost, $27,000. Harry Embree is County Audr.

WYANDOTE, MICH.—JOHN E. CONLEY is reported to have secured the contract for paving with brick Oak St., at $27,545.

TUSCOLA, ILL.—WILLIAM LOUGH, of this city, has been awarded the contract of paving Locust, Oak and Chestnut Sts. The contracts were awarded by the Board of Local Improvements at the following figures: Locust St., $14,731; Chestnut and Oak Sts., $4,934. The contract price is exactly the same as the engineer's estimate, and Mr. Lough was the only bidder.

CHILLICOTHE, ILL.—A. D. THOMPSON has been awarded the contract for paving three blocks in the business district of Chillicothe. The engineer's estimate for the improvement was $8,892. Mr. Thompson's bid was 40 cts. for excavating, 39 cts. for curbing, 20 cts. for protecting curbing and $1.18 for paving with Streator brick.

MONMOUTH, ILL.—The South Tenth St. pavement contract has been awarded to J. C. PORTER, at $10,438, and the sewer contract for the same street was awarded to TUCKEY & MERRIFIELD. Mr. Porter's bid for paving was $900 lower than the engineer's estimate.

ROCKFORD, ILL.—The City Engineer has awarded contract to C. D. COREY for placing concrete work about the city hall, including abutments, walks, steps and concrete curbing and gutters.

DES MOINES, IOWA.—The BARBER ASPHALT PAVING CO., of Des Moines, has secured the contract for paving with Trinidad pitch lake asphalt, West Fourth St., 6,734 sq. yds. at $1.99 per sq. yd., and on Washington St., 1,028 sq. yds., $1.82.

WICHITA, KAN.—Bids are asked until 5 p. m., Nov. 5, by the Council for paving Lawrence St., from Douglas to First St. R. N. Dorr is City Clk.

MINNEAPOLIS, MINN.—It is reported that sidewalks will be laid covering about 182,508 sq. ft. Cost, $92,922. Andrew Rinker is City Engr.

CLINTON, MO.—Bids are soon to be asked for paving 25 blocks of streets with brick. W. H. Shackelford is Mayor.

DENISON, TEX.—Plans are being prepared for 20,000 yds. of brick paving on Main St. R. I. Parks, Engineer.

MARSHALL, TEX.—Arrangements are being made to expend $100,000 in street improvements.

EL RENO, OKLA.—The City Council will shortly advertise for bids for paving four blocks of streets and two blocks of alleys with either brick or asphalt.

ISSAQUAH, WASH.—The County Commissioners have let contract to L. H. GOERIG for construction of a mile of gravel road between Renton and Issaquah, at $3,700.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

WORCESTER, MASS.—The United States Envelope Co. will erect a factory here. It is to be paid for from the earnings.

ORANGE, MASS.—The F. H. Sprague Co. will erect a 50-ft. addition to its garment factory on East Main St. JAMES A. McKENNA has been awarded the contract.

MOOSEY, R. I.—The Alrich Mfg. Co. expects to erect a large addition to its mill soon.

WOONSOCKET, R. I.—The Rosemont Dyeing Co. has been incorporated with a capital of $20,000 by Aram J. Pathier, Jacob, Harry and John Mason. The Montrose Woolen Co. is interested. Plans are now being prepared for a new mill to be erected by the company; it probably will be located on East School St.

PUTNAM, CONN.—The Pine Tree Worsted Co. has been incorporated with a capital of $25,000 by Jere Emery of Putnam; Annie L. Balty, of Atlantic City, N. J.; George J. Torrance, of Harrison, N. J., and Robert E. Torrance, of Kearney, N. J.

SHELTON, CONN.—The FLYNT BLDG. & CONSTRUCTION CO., of Palmer, Mass., has been awarded the contract for erecting two 1-story buildings for the Sidney Blumenthal Co. Cost, $35,000. Noted in issue of Oct. 18.

BUFFALO, N. Y.—It is reported that the Pope Motor Co. may move its plant to this city from Toledo.

NEW BERLIN, N. Y.—AMBLER UNDERWOOD, of Edmeston, has been awarded the contract to erect the new silk mill here. Agne, Rushmer & Jennison, of Utica, are architects. E. E. Elwood is Pres. and Mgr. of the concern.

NEW YORK, N. Y.—The Taylor Textile Mfg. Co., of Williamsbridge, has purchased the southwesterly corner of Fifth Ave. and 218th St. The site is for the erection of a brick factory, which it will begin building immediately for the extension of its rapidly growing manufacture. The present location is at Bartholdi St. and Barnes Ave. The new building will be three stories high, 100 ft. on 218th St., by 40 ft. in width on the Ave.

Bids are asked by John W. Brannan, Pres. Bd. of Trustees of Bellevue & Allied Hospitals, until 3 p. m., Nov. 9, for the erection of additions and alterations to the refrigerating plant in the city morgue at foot of East 26th St. and East River, Boro. of Manhattan.

JERSEY CITY, N. J.—The H. F. Taintor Mfg. Co., of 200 Water St., New York, which recently purchased two blocks of land on the west side of Lexington Ave., extending from Second St. to the Kills, from Mrs. Abby S. Marshall for $100,000, has accepted plans for F. S. Hinds, Arch., of 19 Milk St., Boston, for the erection of a large plant to manufacture whiting. The new plant will consist of four buildings; the factory building will be 127 × 356 ft.; power-house, 46 × 78 ft., and two storehouses, 60 × 90 ft. and 80 × 356 ft. Plans are now ready for figures.

ALLENTOWN, PA.—Kaltenbach & Stephens, of 127 North Tenth St., Brooklyn, will erect a 3-story steel and cement silk mill here at Third, Fourth, Lawrence and Saeger Sts.

SHAMOKIN, PA.—The Croninger Packing Co. is asking for bids on the construction of a 4-story brick, concrete and steel packing and ice manufacturing plant.

BALTIMORE, MD.—D. W. & G. H. THOMAS have been awarded the contract to erect the 6-story building for the Crown Cork & Seal Co., at Girard Ave. and Latrobe St. The main building is to be 41 × 140 ft., with a wing 29 × 40 ft. Estimated cost, $150,000. Noted in issue of Oct. 25.

BLACKSBURG, VA.—It is reported that the Virginia Polytechnic Institute will install an 8-ton refrigerating and a 2-ton ice plant at the power-house.

CLIFTON FORGE, VA.—A company has been organized by W. G. Mathews, A. C. Ford, of Clinton Forge, and J. W. Johnson, of Alderson, to operate the ice plant of Smith & Snead, which was recently purchased. The company proposes installing a new 40-ton plant.

CHARLOTTE, N. C.—The Carson Brick Co. will erect a plant here for the manufacture of red building brick, with a capacity of 60,000 to 75,000 bricks a day. It is proposed to erect boiler-house, engine-house and fan-house, of brick and concrete, 16 × 30 ft., 29 × 52 ft., and 29 × 52 ft., respectively; a brick machinery house of wood, 35 × 40 ft., and kiln 40 × 300 ft. About $40,000 will be invested in buildings and equipments. J. E. Carson is Mgr.

SHREVEPORT, LA.—W. B. Seymour, of Hattiesburg, Miss., contemplates erecting a locomotive repair shop here for locomotives of private railroads.

SOUTH PITTSBURG, TENN.—The Dixie Portland Cement Co. has been incorporated with a capital of $1,000,000 by George E. Nicholson, of Iola, Kan., Pres.; A. B. Cockerill, Nevada, Mo., Vice-Pres.; Richard Hardy, Detroit, Mich., Secy., and L. L. Northrup, of Iola, Kan., Treas. It is proposed to erect a $1,000,000 plant, equipping for a daily capacity of 2,500 barrels of cement. In addition to the main building it is proposed to install ten rotary kilns 8 ft. in diameter and 110 ft. long; crushers, the largest of which will weigh over 160,000 lbs. The plant will be equipped with 4,000-HP. water-tube boilers and cross-compound engines. There will be four dryers 6 ft. in diameter and 60 ft. long; line shafts, grinding machinery, etc. Contracts have been let for the buildings, which will be constructed mainly of structural steel. The warehouse will be 105 × 650 ft. Leigh Hunt, of Iola, Kan., is Engr. in Charge.

CINCINNATI, OHIO.—The Merchants' Ice & Cold Storage Co. has been incorporated by J. F. Ankenhauer, A. Bloom, Geo. B. Riley, B. A. Brinker, F. Bergowisch and L. J. Oehler, with a capital of $500,000. Plans are being prepared for the plant which will be erected.

HAMMOND, IND.—The MACCLINTIC-MARSHALL CONSTRUCTION CO., of Pittsburg, has been awarded the contract to erect the new plant for the Standard Steel Car Co. The cost of the plant will be more than $2,500,000. Over 4,000 tons of structural steel will be required for the buildings.

NEW CASTLE, IND.—It is reported t the Maxwell-Briswell Automobile Co. erect and equip a large plant in this c The company proposes to concentrate all factories here and build an immense pl and a half-mile track to test the machin

ODON, IND.—The Odon Creamery A ciation, recently incorporated, will erect modern creamery plant here. Lew. C. Co Lowrey Cooper and J. H. Resler are Dir tors.

GRAND RAPIDS, MICH.—The plant of t Grand Rapids Malleable Iron Works, own by the Chicago Railway & Appliance Co which was recently destroyed by fire will, is expected, be rebuilt on the same site. Th loss by fire was about $200,000. The pla includes four foundries, annealing, finishin core and motor rooms, and a carpenter sho The Grand Rapids Refrigerator Co. w erect a 3-story building on Clyde Ave. Th main building will be 64 × 250 ft., with wing 64 × 80 ft., and a warehouse 125 × 4 ft. C. H. Leonard is Pres.

MUSKEGON, MICH.—The Continental Mo tor Works, of Muskegon, have filed article of increasing capital stock from $100,000 t $125,000.

PONTIAC, MICH.—HEITSCH BROS. hav been awarded the contract for erecting thre 1-story buildings of brick and concrete fo the Price Varnish Co. Cost, $5,500. Fishe Bros. are Archs.

TRAVERSE CITY, MICH.—The Board Trade wishes to correspond with parties in terested in locating a paper mill, capitalize at $250,000, in this city.

BATTLE CREEK, MICH.—The Quake Oats Co. has awarded contract to the AR NOLD CO., 181 La Salle St., Chicago, Ill at $40,000, for constructing an addition t the present factory of the company.

JOLIET, ILL.—The Corn Products Refin ing Co. has secured an option on about 15 acres of land at Joliet, Ill., on which it wil erect a plant to have a capacity of refinin from 40,000 to 50,000 bushels of corn pe day. The plant will cost between $4,000,00 and $5,000,000.

CHICAGO, ILL.—David Mahaffey, Arch., Oxford Bldg., 84 La Salle St., has let the general contract to F. G. AYERS & CO., 6 Dearborn St., for a manufacturing plant to be built in the block bounded by 48th St 48th Pl., Oakley Ave. and Leavitt St., for the Illinois Vinegar Manufacturing Co. It will comprise one 6-story building, 125 × 17 ft.; one 2-story building, 50 × 125 ft.; thre 1-story buildings, 103 × 125, 60 × 70 and 50 × 65 ft., respectively; and a 1-story boiler and engine house, 65 × 86 ft. The 6-story building will have a reinforced concrete superstructure, and the plant will cost about $200,000.

OMAHA, NEB.—An establishment for manufacturing oiled clothing at Omaha is being considered by parties of Malden, Mass. They intend building a factory having a floor space of about 15,000 sq. ft.

BOWERMAN, COLO.—The Abe Lincoln Gold Mining & Milling Co., owned by Colorado and Illinois capitalists, is preparing for extensive operations on its property at Bowerman, Gunnison County.

RIVERSIDE, WASH.—C. W. Ryan and associates have purchased property at Riverside, where they intend erecting a large sawmill.

MARSHFIELD, ORE.—An alcohol factory is to be constructed here by a firm, in which Peter Loggie, of North Bend, and H. K. Clover, of New York, N. Y., are interested. The plant will be capable of handling the potatoes from 1,200 acres of land.

OAKLAND, CAL.—Alfred Smith, of Easton, Pa., has completed plans for a silk factory to be erected in Oakland.

SAN FRANCISCO, CAL.—The California Fruit Canners' Association has purchased a block of land at North Beach and will erect thereon a fruit cannery. Its output will be 800,000 cases of fruit and it will employ 2,500 people.

POTLATCH, IDAHO.—The Potlatch Brick Co. has been incorporated, with a capital of $10,000, to manufacture common brick. The incorporators are: H. P. Henry, F. C. McGowan and Joseph Ferteling.

SASKATOON, SASK.—WILLOUGHBY & COVERT have contract to build a brewery at Saskatoon, at $50,000.

CALGARY, ALTA.—The Calgary Brewing Co. intends erecting a warehouse, to cost $18,000, at Calgary. The building was designed by the company's engineer, at Estevan, Sask.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

LATERALS, EXCAVATION.—Montana.—U. S. Reclamation Service. See Glendive, Mont., under Water Supply—Irrigation.

SEA-WALL.—Fort Screven, Ga.—Bids are asked until 11 a. m., Nov. 17, for constructing reinforced concrete sea-wall at Fort Screven. Joseph T. Davidson, Q. M.

DREDGING.—Brooklyn, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. Brooklyn, until 11 a. m., Nov. 7, for dredging Gowanus Canal, about 18,000 cu. yds., scow measurement.

DREDGING.—New York, N. Y.—Bids are asked until noon, Nov. 28, for dredging in Mattituck Harbor, N. Y. Col. D. W. Lockwood, Engrs. (Advertised, Engineering News.)

DOCKS.—Detour, Mich.—M. J. SHIRLEY of Sault Ste. Marie, Mich., has the contract for coal docks at Detour for Pickands, Mather & Co., of Cleveland, Ohio. Probable cost, $400,000.

SALE OF RAILS.—Boston, Mass.—Bids are asked until noon, Nov. 2, for the sale by United States of about 56 tons of railroad rails. Information on application. Maj. Edw. Burr, Engrs.

WHARF, ETC.—Fort Stevens, Ore.—Bids are asked until 1.30 p. m., Nov. 12, for construction of wharf, approach and wharf shed at Fort Canby, Wash. Lieut. Cooper, Conacting Q. M., Fort Stevens, Ore.

ATHLETIC FIELD.—New York, N. Y.—Bids are asked by the Department of Education until Nov. 12, 11 a. m., for the Curtis High School athletic field, on Hamilton Ave. and St. Mark's Pl., New Brighton, Boro. of Richmond.

CEMENT.—Washington, D. C.—Bids are asked until 2 p. m., Nov. 12, for furnishing 4,000 bbls. of Portland cement, more or less, in wood and 5,000 bbls. in cloth to the District Commissioners. (Advertised, Engineering News.)

UNDERGRADE CROSSING.—Williamsport, Pa.—Bids are asked until Dec. 1, noon, for construction of an undergrade crossing under the P. & E. R. R. tracks at Campbell St. James F. Fisher is City Engr. (Advertised, Engineering News.)

STEEL TANKS. — Galveston, Tex. — The Missouri, Kansas & Texas Railway Co. will construct three large steel tanks in this city for storage of creosote. The combined capacity will be 500,000 gallons. J. W. Pethram, Ch. Engr., Dallas, Tex.

ENTRANCE.—Brooklyn, N. Y.—Bids are asked until 3 p. m., Nov. 15, by the Department of Parks, New York City, for furnishing material and constructing granite entrance at Ninth Ave. and 15th St., Prospect Park, Brooklyn Boro. Bids were received for this work on Oct. 18.

WHARF, DREDGING.—Fort Hunt, Va.—We are informed that bids received on Oct. 12 for construction of a wharf, dredging a channel and the construction of a wharfhouse were rejected, as funds are not available. Estimated cost, $39,000. Earl Biscoe, Const. Q. M.

ORDNANCE.—Washington, D. C.—Bids are asked until Nov. 14 by the Bureau of Ordnance, Navy Dept., Washington, for furnishing 1,000 each of 6-in., 7-in., 8-in. and 12-in. armor piercing projectiles. The naval ordnance bureau has never before called for bids for projectiles.

DREDGING.—Boston, Mass.—The Bureau of Yards and Docks, Navy Dept., Washington, has rejected all bids received Sept. 20 for dredging at the Boston Navy Yard, and has reissued modified specifications for the same work. Bids will be opened Nov. 24.

TUNNEL ENTRANCE.—Boston, Mass.—HUGH NAWN CONTRACTING CO., 82 Savin St., Roxbury, Mass., has been awarded contract for constructing an entrance and exit to the Washington St. tunnel. Bids received on Oct. 23 by the Boston Transit Commission.

TUNNEL.—Bristol, Tenn.—The South & Western Ry. Co. has let the contract for the construction of a tunnel near Marion, N. C., to the PATTON-RICHARDSON CONSTRUCTION CO., of Newport, News, Va. It will cost about $2,000,000, and will be over a half mile in length.

GREEN-HOUSES.—New York, N. Y.—Bids are asked by the Department of Parks until 3 p. m., Nov. 8, for furnishing all the labor and materials required for the erection and completion of green-houses, to be situated in Central Park, opposite 104th St. and Fifth Ave.

DAM.—Roscoe, Ohio.—Bids are asked until Nov. 14 (re-advertisement) by the State Board of Public Works, Chas. E. Perkins, Ch. Engr., Columbus, for constructing a dam across the Walhonding River, six miles west of Roscoe. Separate bids will also be received for repairing the present dam.

SLUICE GATES. — Wyoming. — Bids are asked by U. S. Reclamation Service, 876 Federal Bldg., Chicago, Ill., until 2 p. m., Dec. 20, for furnishing and installing complete in the excavations furnished by the United States at the Shoshone Dam, near Cody, Wyo., and the Pathfinder Dam, near Casper Wyo., seven gates of the sluicing type. (Advertised, Engineering News.)

LOCOMOTIVES.—Portland, Ore.—The Secretary of the Interior has authorized the purchase of four 10-in. by 18-in. locomotives of 36-in. gage, at $3,000 each, from the AMERICAN LOCOMOTIVE CO., New York. These locomotives are to be used as a portion of the construction plant for hauling excavated materials for the Cold Springs Dam, Umatilla irrigation project, Oregon, which is to be constructed under the direction of the Reclamation Service by force account.

DAM, CANAL, EXCAVATION, ETC.—Lascruces, N. Mex.—Bids were received by the U. S. Reclamation Service on Oct. 16 for construction of a diversion dam and other structures and about six miles of canal on the Rio Grande project, near Lascruces, N. Mex., as follows: Schedule 1—J. P. Nelson, San Antonio, Tex., $104,441. Schedule 2—J. P. Nelson, $31,790. Schedule 3—J. P. Nelson, $9,200; Albert Wallis, El Paso, Tex., $11,700. Itemized bids will be given in Construction News Supplement next week under Contract Prices.

DREDGING PLANT.—Detroit, Mich.—Bids were received as follows on Oct. 22 for hire of dredging plant for use in St. Mary's River, Mich. Col. Charles E. L. B. Davis, Engrs: (a) name of dredge, (b) rate per hour: Hickler Bros., Sault Ste. Marie, Mich., (a) No. 8, (b) $15; James Pryor, Houghton, Mich. (a) James Pryor No. 1, (b) $18.75; The Lake Erie Dredging Co., Buffalo, N. Y., (a) Pan-American, (b) $32.50; Great Lakes Dredge & Dock Co., Chicago, Ill., (a) Columbia, (b) $33.

SUBWAY.—Louisville, Ky.—Details regarding proposed subway in Oak St., under Louisville & Nashville R. R. tracks, are as follows: Estimated cost, $86,000; work to be done for city of Louisville and L. & N. R. R.; no date set for letting; approximate quantities: 24,000 cu. yds. excavation, 2,000 cu. yds. concrete (reinforced and plain), 250,000 lbs. corrugated bars, 2,000 sq. yds. granite block pavement, 1,970 ft. iron fencing. Designing Engineer, J. P. Claybrook, City Engr., City Hall, Louisville. Board of Public Works has charge of advertising.

READERS' WANTS FOR THOSE IN THE MARKET
The readers of ENGINEERING NEWS are constantly in the market for great quantities of machinery, tools and general supplies. While our thousand advertisers are usually able to furnish the material desired, yet there are many things wanted by our readers that are not advertised, although connected with engineering and contracting directly or indirectly. This department (R-W) is for this class of inquiries and we urge our readers to keep us informed. Enclose five cents in stamps and we write to a number of leading manufacturers without further cost. When writing to our advertisers, who are the leaders in their respective lines, **mention Engineering News.** Have you a copy of our Buyers' Guide? **Engineering News Can Help Buyers.**

GRAIN ALCOHOL PLANT EQUIPMENT.—Toledo, Ohio.—H. P. Dodge, 2233 Collingwood Ave., Toledo, Ohio, writes us that he is desirous of information relative to equipment for grain alcohol plants.

DERRICKS, AIR PLANTS, ETC.—Richmond, Va.—The Richmond Pattern & Structural Iron Works, Richmond, Va., write us that they are desirous of names of firms renting air plants and derricks.

REFRIGERATING MACHINERY.—Ossining, N. Y.—We are in receipt of a letter from M. Butler, 133 State St., Ossining, N. Y., in which he states he desires to purchase machinery for equipping a refrigerating plant.

CONCRETE STEEL CULVERT PIPE.—Detroit, Mich.—H. von Schon, Engr., Wayne County Bank Buildg., Detroit, Mich., writes us that he desires the names of firms manufacturing concrete steel culvert pipes.

GALVANIZING IRON PLANT.—Council Bluffs, Iowa.—We are in receipt of a letter from the Campbell-Flagler Bridge Co., Council Bluffs, Iowa, in which it states that it is desirous of information regarding a small plant for galvanizing iron, about 5 ft. long and 2 ft. square, with necessary cleaning and pickling tanks and tools.

DREDGING.—Philadelphia, Pa.—The Bureau of Yards and Docks, Navy Dept., Washinton, D. C., has awarded contract for dredging at the League Island Navy Yard, Philadelphia, to HENRY STEERS, 17 Battery Pl., New York, at 24¾ cts. per cu. yd.

PUMP DREDGING, SEA WALL, BREAKWATERS, ETC.—Branford, Conn.—Bids are asked until 2 p. m., Nov. 5, by the Pine Orchard Country Club, at the office of A. Wm. Sperry, C. E. and Surv., 82 Church St., New Haven, for pumping about 100,000 cu. yds. of earth, the construction of about 800 cu. yds. sea wall, building two breakwaters, building two earth dams, laying about 1,900 lin. ft. 30-in. and 500 lin. ft. 18-in. tile, reclaiming about 20 acres of meadow land and various other work in connection with the same to be performed at Pine Orchard, in the town of Branford.

ORDNANCE.—Washington, D. C.—Bids were opened Oct. 26 at the office of the Chief of the Bureau of Ordnance, War Dept., Washington, for ten barbette carriages: Driggs-Seabury Ordnance Corporation Sharon, Pa., carriages, $25,000, 15 months; guns, $38,000, 19 months; or $60,000, 23 months (modified bid). United States Rapid Fire Gun & Powder Co., New York, carriages, $40,375, 17 months. Bethlehem Steel Co., South Bethlehem, Pa., carriages, $50,500, 13 to 16 months (modified bid). American & British Mfg. Co., New York, carriages, $4,398, 12 months.

DAM WORK.—Billings, Mont.—The Secretary of the Interior has executed a contract with the BILLINGS CONSTRUCTION CO., of Billings, Mont., for the construction of the Corbett Dam and auxiliary structures under the Shoshone irrigation project. The Corbett Dam is a reinforced concrete structure, located on Shoshone River, about eight miles northeast of Cody, Wyo., and the contract involves about 10,000 cu. yds. of excavation, 5,000 cu. yds. of concrete, 9,000 cu. yds. of earth and gravel embankment and the placing of 250,000 lbs. of steel reinforcement. The bid of the contracting company was $66,750, and according to the terms of the contract the work must be completed on or before April 1, 1907.

BULKHEAD.—New York, N. Y.—Bids were received as follows on Oct. 29 by J. A. Bensel, Comr. of Docks and Ferries, for preparing for and building foundations for the columns of the bulkhead shed in the rear of the bulkhead wall between West 19th and 22d Sts., and the shed column foundations on Pier No. 62, near the foot of West 22d St., North River; also for preparing for and laying a concrete pavement over the above described bulkhead shed area and the deck of Pier No. 62, North River: Snare & Triest, 143 Liberty St., $43,100; Bernard Rolf, 39 Cortlandt St., $37,733; Phoenix Construction & Supply Co., 40 Park Row, $37,897; J. P. Carlin, 1 Madison Ave., $74,900; R. Roherer, 299 Broadway, $50,820.

BIDDERS' SURETY BONDS.—Washington, D. C.—The Commissioners of the District of Columbia have issued an order permitting bidders on work for the District Government to furnish surety bonds as a guarantee of good faith, as well as cash deposits or certified checks, which was the requirement up to this time. The change was adopted as a result of complaints from a number of local contractors. They contended that because of the requirement of checks or cash as guarantee many contractors and merchants have refrained from submitting proposals for District work. The question of accepting surety bonds was referred to Auditor Garrison of the District, and he reported to the Commissioners that the latter are accepted throughout the country as well as by the Federal Government.

NAVY YARD PROJECTS.—Brooklyn, N. Y.—The report of the Naval Board, of which Rear-Admiral Fred. Rodgers, U. S. N., is Pres., appointed to suggest changes for the improvements at the Navy Yard at Brooklyn at a cost of $5,000,000, recommends, among other things, that the district bounded by the East River and Hudson Ave. up to York St. be purchased and that the first work on the enlarged water front should be the erection of seven piers, to be followed later by the erection of two more piers. The Board submits a list of buildings necessary in their scheme of installing a system of repair and construction work on ships. The new construction includes marine railways, a large paint shop for all departments, a $50,000 administration building, numerous storehouses, a 10-ton traveling crane and a rearrangement of many existing buildings.

CANAL WORK.—The Board of Consulting Engineers recently convened at Portland, Ore., to open bids for the construction of main canal and laterals of the distributing system, Umatilla irrigation project, Ore., received seven proposals, which were transmitted to the Department for action. The work is divided into two schedules, and the Secretary of the Interior on Oct. 16 awarded the contract for Schedule 1, consisting of about 15 miles of main and lateral ditches, to THOMAS JAQUES, of Pilot Rock, Ore. Mr. Jaque's bid was $20,212. All bids on Schedule 2, which consists of 26 miles of main canal and laterals, were rejected on the ground that they were unreasonably high. The Secretary of the Interior authorized the Reclamation Service to prosecute the work by force account. Horses for this work will be shipped from the Klamath irrigation project, in the southern part of Oregon, as their use at the latter place is not needed during the winter.

U. S. POSSESSIONS AND CUBA.

LEPROSY STATION.—Hawaii.—Bids are asked until Dec. 3 by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., for construction of leprosy investigation station at Molokai, Hawaii. (Advertised, Engineering News.)

UNLOADER PLOWS.—Panama.—The General Purchasing Officer of the Isthmian Canal Commission, Washington, D. C., has awarded to the MARION STEAM SHOVEL CO., Marion, Ohio, contract for furnishing 14 unloader plows, under Class 2, Circular No. 333, at $14,980. Bids were opened Oct. 16.

ENGINEERING SUPPLIES. — Panama. — Requisitions have been received by the Isthmian Canal Commission, Washington, D. C., for two duplex steam pumps and 200,000 ft. of galvanized iron pipe of various sizes from ¼-in. to 4 ins. Advertisements and specifications for this material will be issued in a few days.

ELECTRICAL SUPPLIES. — Guantanamo, Cuba.—Bids are asked at the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until Nov. 13, to furnish at the naval station, Guantanamo, Cuba, a quantity of electrical supplies, etc. Application for proposals should refer to Schedule 228. H. T. B. Harris, Paymaster Gen. U. S. N.

MEXICO.

WATER POWER. — Veracruz. — John B. Body, representing the firm of S. Pearson & Son, Ltd., has made application to the Department of Fomento for a concession to utilize five cubic meters of water per second from the Malatengo River between Ciudad del Barrio and El Arroyo Mogone, in the State of Veracruz, for motive power. Mr. Body may be addressed Puente de Alvarado, No. 15, City of Mexico.

RAILWAY.—Colima.—The Mexican Central Ry. Co. has completed the preliminary survey for the proposed branch from Colima, capital of the State of Colima, to Autlan, Jalisco, and location surveys have been commenced. The line will be about 76 miles in length. It is planned to commence construction of the branch following the completion of the Manzanillo extension. The concession gives the Central the right to extend the branch into the Mascota district of Jalisco. Lewis Kingman, City of Mexico, is Ch. Engr.

PORT WORKS.—Manzanillo, Colima.—The Mexican government has just appropriated $250,000 to continue the port works at Manzanillo, which will be expended on the breakwater. An additional appropriation of several million dollars, it is expected, will be made soon, to complete the works. Col. E. K. Smoot, the contractor for the port works, has made plans calling for the extension of the breakwater for a distance of 300 ft., the completion of the Ventanas canal and a breakwater at the canal entrance, and the construction of ten masonry piers, each 700 ft. long, 200 ft. wide at the shore line and 75 ft. at the point. However, in place of extending the breakwater and completing the Ventanas canal, the Mexican Central Ry. Co. management favors uniting the present harbor and the Cuyutlan lagoon by means of a canal, and establishing an inner harbor in the lagoon. It is said the government is undecided which plan to adopt, and that the appropriation will not be made until the decision is made. Capt. John Whittle is superintendent of the port works.

(Continued on Next Page.)

CONTRACT PRICES.

(Where (*) precedes items under Contract Prices the work was advertised in Engineering News.)

*SEWERS, TESTING PLANT, ETC.—Baltimore, Md.—Bids were received, as follows, on Oct. 3 by the Board of Awards for the construction of a testing plant, laboratory and laying sewers. Wm. D. Platt is Chn. Bids in detail are here given: (A) MALCOLM W. HILL CO., 405 Courtland St., Baltimore (awarded contract for testing plant); (B) The Engineering Contracting Co., 300 North Calvert St., Baltimore; (C) WILLIAM KIRKPATRICK, 423 Hawthorn Road, Roland Park, Baltimore (awarded contract for laboratory); (D) R. F. Proctor & Co., 17 Battery Pl., New York; (E) Charles L. Stockhausen, Gay and Water Sts., Baltimore; (F) Willis & Mason, Baltimore; (G) B. F. Bennett & S. F. Bennett, Baltimore; (H) M. A. TALBOTT & CO., Logansport, Ind. (awarded contract for sanitary sewers in Walbrook); (I) P. Flannigan & Son; (J) James Keelty:

Bids for laboratory:

(a) Number of working days required for completion.

(C) $3,750, (a) 60; (F) $4,184, (a) 50; (G) $4,529, (a) not given; (I) $4,605, (a) 60; (B) $4,944, (a) not given; (E) $5,905, (a) not given.

BIDS RECEIVED ON OCT. 3 FOR SEWERS, TESTING PLANT, ETC., AT BALTIMORE, MD.

Bids for sewers:	(H)	(D)	(I)	(J)
1,359 lin. ft. 8-in. vit. pipe, 4 to 8 ft. depth...	$0.45	$1.00	$0.75	$1.50
2,415 lin. ft. 8-in. vit. pipe, 8 to 12 ft. depth...	0.68	1.50	1.00	1.94
10 lin. ft. 10-in. vit. pipe, 2 to 4 ft. depth...	0.52	1.00	.65	.70
86 lin. ft. 10-in. vit. pipe, 4 to 8 ft. depth...	0.85	1.20	.85	1.70
46 lin. ft. 10-in. vit. pipe, 8 to 12 ft. depth...	1.00	2.50	1.10	2.03
30 lin. ft. 18-in. vit. pipe, 2 to 4 ft. depth...	.92	1.50	.90	1.25
165 lin. ft. 18-in. vit. pipe, 4 to 8 ft. depth...	1.08	2.50	1.30	2.03
4,695 cu. yds. rock excavation.....	4.00	2.10	4.00	4.00
4,165 cu. yds. earth excavation above rock.....	.61	2.10	1.55	1.00
4,318 lin. ft. 8-in. vit. pipe, in rock, emb. or tunnel	.30	.40	.45	.40
373 lin. ft. 10-in. vit. pipe, in rock, emb. or tunnel	.7	.50	.53	.50
750 Y-branches. { 500.....	.30	.40	.65	1.00
100.....	.40	.70	.75	1.40
150.....	1.00	2.00	1.50	3.33
2,064 lin. ft. 6-in. vit. pipe, house connections..	.50	.90	.80	1.40
50 manholes	50.00	60.00	82.50	140.00
8 flushing manholes	80.00	75.00	95.00	140.00
100 lin. ft. 4-in. under drains.....	.20	.20	.25	.50
10 cu. yds. concrete	10.00	8.00	8.50	9.00
3,424 cu. yds. embankment	.50	.50	1.20	.50
250 ft. B. M. lumber left in trench.....	40.00	40.00	35.00	35.00
2,251 lin. ft. 18-in. vit. pipe, in rock, emb. or tunnel	.72	2.00	.85	1.00
Total amount of bid.....	$33,231	$38,475	$44,365	$48,362
Number of working days required for completion	150	140	170	200

Bids for testing plant:	(A)	(B)	(C)	(D)	(E)
825 cu. yds. of earth excavation.....	$1.51	$0.75	$0.72	$0.60	$1.50
50 cu. yds. of rock excavation.....	6.00	3.90	3.00	2.00	5.00
165 cu. yds. of concrete masonry, Class "A"...	8.90	9.00	14.00	10.00	5.75
10 cu. yds. of concrete masonry, Class "B"...	7.90	8.50	7.00	9.00	5.50
1,368 lbs. of steel reinforcement.....	.04	.04½	.045	.06	.05
500 lin. ft. of 4-in. vitrified sewer pipe.....	.12	.28	1.00	.55	1.75
125 lin. ft. of 6-in. vitrified sewer pipe.....	.15	.30	1.00	.75	2.00
3 6-in. cast-iron seat valves.....	33.25	75.00	80.50	25.00	50.00
12 4-in. cast-iron seat valves.....	15.50	50.00	52.00	15.00	40.00
1,200 lin. ft. of 6-in. lateral collectors.....	.15	.21	.15	.20	2.00
1 adjustable weir	25.00	35.00	37.00	20.00	75.00
710 cu. yds. of broken stone filtering material.	2.43	1.75	2.07	2.50	3.00
130 cu. yds. of rubble	2.19	6.50	3.22	10.00	5.00
5 cu. yds. of brick masonry	12.50	15.00	16.00	15.00	11.00
200 ft. B. M. of lumber left in place.....	55.00	50.00	35.00	40.00	80.00
150 lin. ft. of 4-in. w.-i. pipe, with fittings....	.49	.70	1.47	2.00	2.00
Special machinery, including sprinkling-arm, track, etc.....	$65.00	1,600.00	1,650.00	1,000.00	2,000.00
Sewage screens	30.00	40.00	104.00	25.00	25.00
2 automatic drip gate valves with wheels.....	29.00	65.00	68.00	25.00	88.00
1 ½-in. stop-cock	5.00	4.00	4.75	2.00	3.00
Total amount of bid.....	$6,930	$7,900	$8,986	$7,806	$12,145
No. working days required to complete contract.	120	Not given	90	90	Not given

*STORM WATER DRAINS.—Baltimore, Md.—Bids were received on Sept. 19 by the Board of Awards for building storm water drains in this city. Contract was awarded to M. A. TALBOTT & CO., of Logansport, Ind., who commenced work on Oct. 22. Harry W. Rodgers, Secy. and Calvin W. Hendrick, Ch. Engr., of Sewerage Comn. The bidders and itemized prices were as follows; (1) M. A. Talbott & Co., Logansport, Ind.; (2) J. H. Louchheim, Mint Arcade, Philadelphia; (3) David Peoples, Betz Bldg., Philadelphia; (4) James Keelty, 320 East Oliver St., Baltimore; (5) P. Flanigan & Son, Lexington and Calvert Sts., Baltimore:

BIDS RECEIVED ON SEPT. 19 FOR STORM WATER DRAINS, BALTIMORE, MD.

	Quantity.	(1)	(2)	(3)	(4)	(5)
Earth excavation and refill in trench above drain grade for 45 × 66-in. rectangular drain	1,450 lin. ft.	$1.90	$5.25	$3.80	$5.85	$3.50
Earth excavation and refill in trench above drain grade for 48-in. circular drain	700 " "	1.90	3.00	2.80	4.20	3.10
Earth excavation and refill in trench above drain grade for 42-in. circular drain	2,370 " "	1.56	3.50	3.55	3.92	2.75
Earth excavation and refill in trench above drain grade for 36-in. circular drain	5,475 " "	.95	2.50	2.75	3.68	2.50
Earth excavation and refill in trench above drain grade for 30-in. circular drain	1,210 " "	.95	1.75	1.82	3.38	2.10
For furnishing material and building 45 × 66-in. reinforced concrete drain	1,040 " "	10.53	7.70	8.55	9.30	16.10
For furnishing material and building 45 × 66-in. reinforced concrete drain on piles	150 " "	11.25	15.00	12.00	13.00	21.80
For furnishing material and building 48-in. circular drain of brick masonry	730 " "	4.69	5.60	5.94	5.30	15.50
For furnishing material and building 48-in. drain of ordinary concrete masonry	730 " "	5.87	6.00	6.75	4.40	14.95
For furnishing material and building 48-in. circular drain of reinforced concrete masonry	730 " "	6.75	4.50	7.05	5.25	12.95
For furnishing material and building 48-in. circular drain of reinforced concrete pipe	730 " "	3.60	4.30	4.87	8.00	9.50
For furnishing material and building 42-in. circular drain of brick masonry	2,430 " "	4.50	5.20	6.00	5.75	10.50
For furnishing material and building 42-in. circular drain of ordinary concrete masonry	2,430 " "	4.37	5.40	5.62	3.44	9.25
For furnishing material and building 42-in. circular drain of reinforced concrete pipe	2,430 " "	3.22	4.80	4.80	7.00	8.10
For furnishing material and building 36-in. circular drain of brick masonry	6,342 " "	3.66	4.70	4.25	4.40	9.60
For furnishing material and building 36-in. circular drain of ordinary concrete masonry	6,342 " "	2.91	4.20	4.25	2.56	8.10
For furnishing material and building 36-in. circular drain of reinforced concrete pipe	6,342 " "	2.87	4.00	4.05	6.00	7.50
For furnishing material and building 30-in. circular drain of vitrified pipe	4,547 " "	3.05	3.00	3.10	2.75	6.50
For furnishing material and building 30-in. circular drain of ordinary concrete masonry	1,547 " "	2.50	3.30	4.45	2.00	7.65
For furnishing material and building 30-in. circular drain of reinforced concrete pipe	4,547 " "	2.44	2.95	3.00	4.00	7.10
Earth excavation and refill in trench above drain grade for 24-in. vitrified pipe drain, including furnishing and laying pipe	8,080 " "	2.24	2.25	2.30	4.53	3.10
Earth excavation and refill in trench above drain grade for 18-in. vitrified pipe drain, including furnishing and laying pipe in same	8,125 " "	1.41	1.55	1.63	3.55	2.60
Earth excavation and refill in trench above drain grade for 15-in. vitrified pipe drain, including furnishing and laying pipe in same	8,285 " "	1.26	1.30	1.55	2.52	2.50
Earth excavation and refill in trench above drain grade for 12-in. vitrified pipe drain, including furnishing and laying pipe in same	1,345 " "	.99	1.20	1.05	2.39	2.40
For excavating rock or boulders of ½ cu. yd. or more in volume	1,700 cu. yds.	3.00	3.00	3.40	5.00	4.50
Ordinary brick masonry not included in sections shown on plans laid in Portland cement mortar	285 " "	9.00	14.00	16.50	14.00	16.50
Vitrified brick masonry laid in Portland cement mortar	175 " "	11.00	20.00	22.50	19.00	23.50
Ordinary concrete masonry not included in section shown on plans	40 " "	8.00	8.00	12.00	7.00	10.50
Rubble stone masonry laid in cement mortar	5 " "	6.50	5.00	7.00	11.00	9.50
Excavating for furnishing and laying 6-in. underdrains, including gravel or other refilling around same	300 lin. ft.	.15	.20	.65	.12	.25
Sawing off piles driven and cut off	3,100 " "	.10	.50	1.40	.25	.55
Excavating for furnishing and laying 6-in. underdrains, including gravel or other refilling around same	200 " "	.20	.30	.70	.16	
Excavating for furnishing and laying 8-in. underdrains, including gravel or other refilling around same	400 " "	.30	.40	1.00	.20	
Excavating for furnishing and laying 10-in. underdrains, including gravel or other refilling around same	400 " "	.35	.50	1.10	.25	
Brick manholes complete, including labor, material, excavation and backfilling for same	222	45.00	50.00	45.00	37.00	85.00
Drop manholes complete, including labor, material, excavation and brickfilling for same	8	54.00	80.00	75.00	37.00	95.00
Filling in embankment measured in place	3,500 cu. yds.	.40	1.00	1.25	.40	.60
For all 12-in. bevel connections built in	25	.75	1.40	.90	1.50	2.50
For all 15-in. bevel connections built in	1	.90	2.20	1.25	2.00	3.50
For all 18-in. bevel connections built in	1	1.00	3.00	1.40	2.50	5.00
For all 24-in. bevel connections built in	1	1.50	4.00	2.00	3.00	7.00
Repaving in gutters or streets, exclusive of that required for restoring pavement over drains, ditches and inlets	375 sq. yds.	1.50	1.00	.80	.50	.50
Riprap and slope paving	200	.90	2.50	1.25	1.00	.70
Earth excavation and refill in 12-in. inlet connections and furnishing and laying pipe in same	6,122 lin. ft.	.85	1.00	1.20	2.00	1.60
Inlets with granite or bluestone head, including excavating and backfilling for the same	232	28.00	44.00	73.00	100.00	80.00
Earth excavation of extra depth below drain made by order of the engineer, not including excavation for underdrains	25 cu. yds.	1.00	1.50	1.25	3.00	1.50
For furnishing and laying 15-in. vitrified pipe in portion of trench where rock is encountered	215 lin. ft.	.76	.70	.70	1.80	1.10
For furnishing and laying 12-in. vitrified pipe in portion of trench where rock is encountered	200 " "	.55	.60	.60	1.65	1.00
For furnishing and laying 24-in. vitrified pipe on embankments without excavation	20 " "	1.70	4.00	4.25	1.75	1.75
For furnishing and laying 18-in. vitrified pipe on embankments without excavation	10 " "	.93	3.50	3.76	1.20	1.30
For furnishing and laying 15-in. vitrified pipe on embankments without excavation	10 " "	.76	3.00	3.15	.90	1.20
For furnishing and laying 12-in. vitrified pipe on embankments without excavation	10 " "	.51	2.50	2.55	.75	1.10
Gravel or backfilling below grades not including underdrain, made by order of the engineer	25 cu. yds.	2.50	1.00	2.10	2.00	2.00
Lumber used for sheeting and shoring, but sheeting left in place by order of the engineer	15 ft. B M.	30.00	20.00	35.00	25.00	30.00
Lumber in trench used for permanent foundation, exclusive of piling, including all incidental work.	10 " "	40.00	60.00	61.00	35.00	40.00
Earth excavation and backfilling in trench where rock is encountered.	175 cu. yds.	.50	.60	1.10	5.00	.75
For furnishing and laying 24-in. vitrified pipe in portion of trench where rock is encountered	400 lin. ft.	1.70	1.25	1.25	2.53	1.75
For furnishing and laying 18-in. vitrified pipe in portion of trench where rock is encountered	180 " "	.93	.80	.87	2.00	1.30
Total bid		$152,902	$201,911	$217,545	$266,103	$300,721
Days required for completion of contract		250	250	240	400	450

Repaving of streets is included in the bids. The kinds of paving involved are cobble, block asphalt, sheet asphalt and granite block. A few streets are not improved.

Manholes are about 6.25 ft. deep to the top of drains.

The concrete is 1:2½:5.

The depths of trench are:

For 15-in. drain	6.7 ft.	For 36-in. drain	10.7 ft.
For 18-in. drain	7.5 ft.	For 42-in. drain	12.0 ft.
For 24-in. drain	8.8 ft.	For 48-in. drain	11.0 ft.
For 30-in. drain	10.8 ft.	For 45 × 66-in. drain	10.0 ft.

MEXICO.

The names of parties awarded contracts are printed in capital letters.

SEWERAGE.—Parral, Chihuahua.—The United States Banking Co., of the City of Mexico, through its Pres., Geo. L. Ham, has taken the entire issue of Parral bonds, amounting to $300,000, the proceeds from which are to be expended in the sewerage of that city.

RAILWAY.—Guaymas-Guadalajara.—It is reported that Grant Bros., railway contractors, of Los Angeles, Cal., will probably secure a contract for the construction of a large portion of the Southern Pacific extension from Guaymas, Sinaloa, to Guadalajara, Jal.

WATER POWER.—Michoácan.—E. L. Dewey has petitioned the Department of Fomento for a concession to use the waters of the Tacambaro River, in the State of Michoacan, for the production of motive power. Mr. Dewey may be addressed at the American Hotel, City of Mexico.

RAILWAY TIES.—Sinaloa.—The Southern Pacific Ry. Co. has closed a contract with JOSE SOTO, of Culiacan, Sinaloa, for 600,000 ties for the Guaymas-Guadalajara extension of the system. The ties will be used between Mazatlan and Topic. The contract amounts to $500,000.

TELEPHONE LINE.—Vanegas, San Luis Potosi, to Hda. de San Tiburcio, Zac.—The electrical firm of VAN VOORHIS BROS., of Monterey, Nuevo Leon, has been awarded the contract for the construction of a telephone line, 75 kilometers in length, from Vanegas, State of San Luis Potosi, to the Hacienda de San Tiburcio, Zac. Construction will commence next month.

COTTON MACHINERY.—Tizapan, Federal Dist.—A new industrial company was organized in the City of Mexico Sept. 15, under the title of La Hormiga, for the purpose of acquiring the cotton works known as Fabrica de Hilados y Tejidos La Hormiga, situated in Tizapan, within the federal district. The new company proposes to amplify and renovate the plant. The council of administration consists of S. Robert, Pres.; Emilio Meyran, Vice-Pres.; Santiago Arrechederra, P. Chaix and Julio Reynaud, all connected with the leading French interests in the dry goods business in the City of Mexico.

RAILWAY.—Zacatecas and Durango.—Walter C. Palmer, P. O. Box 17, City of Zacatecas, has been granted a concession, under date of Oct. 6, for the construction of a railway from Chalchihuites or other point near thereto, in the State of Zacatecas, to the City of Durango or other point on the Mexican International Ry. near thereto. Surveys and construction must commence within 12 months and at least 20 kilometers of road be finished within two years and 20 kilometers each successive year. The whole road must be finished within six years. The concessionaire has deposited $15,000 in bonds of the consolidated public debt in the federal treasury to guarantee the fulfillment of his obligations.

TERMINAL IMPROVEMENTS.—Veracruz.—Rudolph Weiser has been appointed Chief Engineer of the Veracruz Terminal Co., and has assumed charge of the engineer corps engaged in completing plans for the important railway and marine terminal. Work has actually commenced, and within a short time the property of all the railways entering Veracruz will be turned over to the terminal association, and in return each company will receive a proportionate share of the stock of the company. The organization of the company in London has been effected, and all the stock not to be held by the railway companies has been disposed of. The capital stock of the company is $6,000,000, all of which will be required in the construction. It is expected to complete the work in about two years.

C. J. S. Hall, Arch., Calle de San Ildefonso No. 10, City of Mexico, has been commissioned by Rudolf Wieser, Ch. Engr. of the Veracruz Terminal Co., to make plans for the union station and hotel to be erected by the Terminal Co.

NEW STAMP LAW.—Mexico City, Mex.—The new stamp law recently promulgated by the Mexican Government becomes effective on Nov. 1. This federal stamp tax must be paid on all deeds, contracts and documents which are made, drawn up or issued abroad, provided that they are to take effect in the republic, except in such cases as may be determined by law. Contracts made abroad on account of the federal government and documents which have paid consular fees in accordance with the tariff are exempt from the stamp law. Additions and amendments to manifests, to requests for clearance or for customs permits, and to invoices, are subject to a stamp tax of 50 cts. No stamps are required on certificates granted to vessels leaving port in ballast. Charter parties made abroad which foreign merchant vessels are obliged to present to the captains of the Mexican ports on entering and leaving harbor do not pay stamp tax. Bonds or guarantees issued in case of loss or non-receipt of bills of lading by the consignee to the carrying company to secure delivery of goods will in the future pay a stamp tax of 25 cts., instead of $3, as formerly. With reference to leases for a fixed term of five years, the new tax is to be at the rate of five cents for every ten pesos or Mexican dollars, no distinction being made between a notarial or a private document as regards the effect of the law. When the lease exceeds five years in duration there will be a rate as regards the excess, or one cent for every ten pesos. With reference to "letter powers," under the new law, if the power is given by one person in favor of one person only, the stamp will be five cents, but if three persons intervene in any capacity whatsoever the stamp must be 20 cts., irrespective of the number of principals or of attorneys. As to the transfer of real estate, the price is unaltered when the price exceeds $500, but when the price is less than that sum and the transfer is made by "private document" the rate will be five cents for every ten pesos. At present the rate is six cents for every ten pesos. There are some very important changes in the law touching concessions. Under the present law the tax on water power is simply nominal, whereas under the new law the tax will be as follows: (1) For every leaf of the concession, $5; (2) for every horse-power, to be determined in the manner provided by the law itself $2, if the concession is for 30 years or more; if for a shorter period, the rate will be $1 per HP. With regard to irrigation concessions, the rate will also be $5 per leaf, and in addition, if the concessions be for 30 years or more, the tax will be at the rate of $5 for every cubic meter per second, or if less than 30 years, $2.50 per cubic meter per second. Regarding railway concession the change is quite important, the same charge remaining of $5 per leaf, and in addition $10 for every kilometer which it is proposed to construct. On mortgages the charge is reduced from 70 cts., as at present, to 50 cts. per $100 borrowed.

FOREIGN CONTRACTS.

(To insure prompt attention, letters upon consular business should be addressed to the American Consul at ——, ——. Such letters are opened and attended to by the person that may be in charge of the office. If addressed to the Consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office, the matter may wholly escape attention.)

PORT WORKS.—India.—The Karachi Port Trust has received sanction to commence the first step in the great scheme of improvement that will eventually double the export, import and shipping facilities of that port. Permission to raise the first loan of 4,500,000 rupees at 4%, has been granted, the loan to be repayable in the next 30 years and to be applied approximately as follows: (1) New wharfage, 1,500,000 rupees; (2) new passenger basin and landing stage, 220,000; (3) reclamation, 572,000; (4) relaying railway approaches, etc., 546,000; (5) dredging, 254,000; (6) roads and approaches, 238,000; (7) contingencies and compensation, 1,170,000; total, 4,500,000 rupees (approximately $2,250,000). The above represents only the first installment of the improvement scheme, the next being the new import and export yards, plans and estimates for which are now before the government.

PUBLIC WORKS.—Vladivostok.—Roger S. Greene, American Commercial Agent, reports that plans are contemplated by the municipality of Vladivostok for the construction of a series of public works which will require an expenditure of at least $5,000,000 or $6,000,000 United States currency. The authorities have in mind the creation of a loan for the granting of concessions to carry out the enterprise. Some features of the general proposition may be inviting to American enterprise and capital. Mr. Greene has forwarded a map of the city, with explanations, which may be examined at the Bureau of Manufacturers, Dept. Commerce and Labor, Washington, D. C., or it will be loaned to interested parties in the order of application. The report is as follows: "The most urgent of these are: (1) water-works, (2) sewerage system, (3) an electric street railway and an electric lighting system, (4) building of wharves and warehouses on the Golden Horn Bay, (5) the construction of a small harbor for coasting vessels on the Amur Bay near the market, (6) the building of markets, (7) the paving of streets.

"The city also wishes to erect a large building or series of buildings on the ground now occupied by the city garden, the basements to be used for storage of merchandise, the rear being right on the wharves, and the other floors for offices, parts to be set aside for an exchange or chamber of commerce, for municipal offices, for the municipal bank and library, and for a theater or club.

"The erection of buildings for cheap lodgings is also planned. Rents are now so high that an unfurnished apartment of five rooms, for instance, even at some distance from the business center, can not be secured for less than $100 a month. A steam bakery, steam laundry, a public bath house, a slaughter-house, and small electric ferries on the bay are among the improvements proposed. More hospitals, schools and gardens, boulevards, places for sea bathing, etc., are desired. An addition of $250,000 is needed for the capital stock of the municipal bank and for a Mont de Piéte or municipal pawn shop.

"The city has no funds available for beginning by itself even part of this somewhat ambitious programme, but it is felt that these undertakings, if properly managed, should most of them be profitable investments. The municipality is desirous of securing a loan for the purpose of undertaking the construction and management itself, but it is pretty generally realized that there may be difficulty in getting the money in this way, and therefore it is also open to propositions for (1) a loan secured on the work undertaken, the construction to be by the lenders or otherwise under their control; or (2) a regular concession for construction and operation, the franchise to last preferably not longer than twenty years. No definite outline of the conditions prescribed has been formed, and a proposition that required harder conditions in certain ways would have a chance of acceptance on account of other favorable points, such, for example, as exceptional solidity and standing of the applicants and guarantees for prompt and satisfactory execution of contracts. The city has no funded debt at present, but owes to the central government some $150,000 for provisions supplied in anticipation of a siege during the war, and about $100,000 short-time loans have been recently negotiated for a hospital and a school building. On the other hand, it owns all the vacant land on the peninsula on which Vladivostok is situated, for a distance of some 13 miles, and still holds a great deal of valuable land in the city itself, which could be used as security indirectly, though a foreign corporation or person could not hold it itself. It also owns warehouses which bring in a good income. Lenders could not count on securing any interest or sinking-fund payments from the present revenues of the city, but would have to base their calculations on securing the return from the works constructed. The revenues and expenditures of the city ordinarily balance exactly. This year it is estimated that they will each come to about $300,000. A loan or concession would require the approval of the central government. Vladivostok has a population, civil and military, of probably about 100,000, it being impossible to state the number accurately on account of the policy of secrecy maintained regarding military matters. The city is built on the shores of the Golden Horn Bay and on the hills, which here begin to rise almost from the water's edge. To avoid ascending the hills too far, the city has extended itself along the shore, and is thus stretched out to a length of about seven miles, disproportionate to its area; but there are a good many houses as high as 150 feet above the sea, the streets leading to them being very steep.

"The water-works proposal presents some serious difficulties, as in order to secure a sufficient supply of water it will probably be necessary to go out about 35 miles to the River Maike, and I am told that two or three pumping stations would be required to get the water over some of the intervening hills. It has also been suggested that the pipes be carried under the Amur Bay to the River Mangugai, but the distance would be about the same and would include not less than six miles of pipe under the bay, which has an average depth of 42 feet and is in some places as deep as 48 feet. It is estimated that from 550,000 to 800,000 gallons of water will be required daily. The severe winter, during which the ground freezes to a depth of about five feet, is an important factor to be considered. The naval station and the railway have water-works of their own. The street railway and electric lighting propositions are the most attractive at present. The great amount of traffic on the one or two principal streets would make it possible for a railway to serve a very large number of people with a comparatively short and simple system, the present idea being to construct a line from the eastern end of the town, along the main street to the railroad station and to the market. One branch line northward into the country on the Aleutskaya or Kitaiskaya streets to First River, about three miles, would probably be also popular, as it would permit people to live in the suburbs of the town. A number of houses have been built in that direction already. There would probably be a good chance for a line around the bay as well. First and second-class cars would probably be necessary here. Altogether about eight miles of line should be constructed. The streets are for the most part wide enough to accommodate a double track. As regards lighting, there are already a number of private plants, most of which supply other houses in their vicinity. This would be an important matter to be considered if concession were applied for. The city at present states that it will want for street lighting to begin with about 200 lights of 1,000 and 500 c. p., and it is estimated that the private consumption will be from 5,000 to 7,000 lights of an average c. p. An increase would of course depend on the price and on the arrangements that could be made for limiting the private plants.

"The wharves in the Golden Horn Bay should have a frontage of about 3,500 feet. The warehouses are to be of two classes: Those for safe-keeping of goods for long periods, which should accommodate 129,000 tons; and those to shelter transit cargo, which should have a capacity of 261,300 tons —some to be built of brick, and some of steel and galvanized iron, or other cheap fireproof construction, according to the goods to be stored. On the Amur Bay, simply a strong embankment will be necessary for about 1,750 feet and a short breakwater about 100 feet long in comparatively shallow water; this is for the use of the small sailing craft in the local coastwise trade. A very large market will be required. Near the present building temporary booths covering two or three acres have been set up. The main streets in immediate need of paving have an area of 490,000 sq. ft. Judging from present appearances it would seem that if this enterprise were taken up with proper caution and tact by parties of whose bona fides there could be no doubt, and who could command the necessary capital or credit, a concession might be obtained for all or part of these works. If persons desired to make a loan to the city for the purpose, advantageous terms could probably be obtained, as the rate of interest commonly prevailing here is very high. The whole sum of $6,000,000 would not of course be needed at once, but would be spread over several years. I understand that several proposals have already been made to the city, but on account of the lack of standing of the promoters, or because the conditions they propose are not satisfactory, they have not been accepted. It is most essential that parties applying for the concession should have large capital and experience to command the confidence of the municipality and of the central government.

"Of course such an investment would require confidence in the future of the city, on which subject interested parties must investigate and form their own opinions. My own feeling is that Vladivostok is likely to continue to be at least as important as now and that these works could be made to pay on the present basis. This leaves out of consideration the tremendous growth possible with the rich country back of this port. As has often been pointed out, while Vladivostok is not an 'ice-free' port, by the use of an ice breaker ships are regularly enabled to enter and leave the harbor during the months of January and February when the ice forms, and as the railroad service develops a large transit trade will undoubtedly grow up here. From the point of view of the general interests of American trade, it would be a tremendous advantage if such a foothold could be obtained in Siberia. These works would require a very large amount of imported material, and being a practical demonstration the start thus obtained would be very valuable. As Vladivostok is within 20 days easy steaming from our Pacific Coast, the United States ought to be in an exceptionally good position to compete strongly for this business. Persons interested in this matter should communicate with the mayor of the City of Vladivostok, and, if possible, should send out a competent engineer who could make on the ground definite proposals for submission to the city. They must bear in mind that many difficulties will arise and that a satisfactory result can not be obtained without much patience, careful planning, and allowance for local conditions. The disadvantages may appear too great for some, but I believe the various projects to be well worth an investigation."

CIVIL SERVICE EXAMINATIONS

ASSISTANT STEAM ENGINEER.—Albany, N. Y.—The State Civil Service Commission will hold an examination on Nov. 17 for the position of Assistant Steam Engineer, State and County Service, $600 to $900 and maintenance. Charles S. Fowler, Ch. Examiner.

CHIEF, WATER BUREAU.—Philadelphia, Pa.—A competitive examination for the position of Chief of the Bureau of Water of the city of Philadelphia will be held in Room 875, City Hall, Philadelphia, on Dec. 4, at 9 a. m. Applicants must be citizens of the United States, 30 years of age or over. Must be competent civil engineers, with executive capacity, and preferably with experience in the conduct of water-works. Must have technical knowledge equivalent to that required for graduation from a technical school of good standing. Need not be residents of the city of Philadelphia. Further particulars will be furnished upon written request to the Civil Service Commission, Philadelphia. This examination is a postponement of date from Oct. 31. (Advertised, Engineering News.)

ENGINEERING MATERIAL PRICES.

TRACK FASTENINGS—
Pittsburg, f. o. b. cars—Angle bars, 1.50 to 1.75 cts.; spikes, 2.50 to 2.75 cts.; bolts, square nuts, 2.60 to 2.65 cts.; bolts, hexagonal nuts, 2.75 to 2.80 cts.

RAILS, STEEL—
New York—at mill—New standard sections, $28; standard, second quality, $27; light sections 12 to 25 lbs., $28 to $32; old iron f. o. b. New York, $24.50 to $25; old steel, long lengths, $16.50 to $17; old steel, short pieces, $16 to $16.75.
Pittsburg—Standard sections, at mill, $28; standard, second quality, $27.50 to $28; light rails, 12 to 25 lbs., $32.

STRUCTURAL MATERIALS—
New York—at tidewater—Beams and channels, up to 15-in., 1.84½ cts.; over 15-in., 1.84½ cts.; angles 3 × 2 and up to 6 × 6, 1.84½ cts.; zees, 3-in. and larger, 1.89½ cts.; tees, 3-in. and larger, 1.89½ cts.; steel bars, half extras, 1.74½ cts.

PLATES AND SHEETS—
New York—at tidewater—Sheared plates, tank, 1.74½ cts.; flange, 1.84½ cts.; marine, 2.04½ cts.; still bottoms, 2.04½ cts.; fire-box, 2.24½ to 3.05 cts.
Pittsburg—Tank, ¼-in. thick and heavier, 1.60 cts.; black sheets, 27 gage, 2.40 cts.; black sheets, 28 gage, 2.50 to 2.55 cts.

IRON—
Pig Iron:

At New York—tidewater—			
Northern—			
No. 1 X foundry	$23.	to	$26.
No. 2 X foundry	22.50	to	25.
No. 2 plain	22.	to	24.50
Gray forge	19.	to	20.
Basic	20.	to	21.
Virginia—			
No. 1 foundry	22.10	to	24.10
No. 2 foundry	21.65	to	23.65
Basic	21.15	to	21.65
Southern—			
No. 1 foundry	22.	to	24.50
No. 2 foundry	21.50	to	24.
No. 3 foundry	21.	to	23.50
No. 4 foundry	20.	to	22.
No. 1 soft	22.	to	24.50
No. 2 soft	22.50	to	24.
Gray forge	19.	to	20.
Mottled	18.	to	19.
Basic	21.	to	21.50
At Chicago—			
Lake Superior charcoal	$22.	to	$22.50
Northern coke foundry, No. 1	22.50	to	23.
Northern coke foundry, No. 2	22.	to	22.50
Northern coke foundry, No. 3	21.50	to	22.
Northern Scotch, No. 1	22.50	to	23.
Ohio strong softeners, No. 1	22.30	to	22.80
Ohio strong softeners, No. 2	21.80	to	22.30
Southern coke, No. 1	21.40	to	21.90
Southern coke, No. 2	20.90	to	21.40
Southern coke, No. 3	20.40	to	20.90
Southern coke No. 4	19.90	to	21.40
Southern coke, No. 1 soft	21.40	to	21.90
Southern coke, No. 2 soft	20.90	to	21.40
Southern gray forge	19.40	to	19.90
Soutnern mottled	18.90	to	19.40
Malleable Bessemer	22.	to	23.
Standard Bessemer	21.80	to	22.30
Jackson Co. and Kentucky Silvery, 6%	24.30	to	24.80
Jackson Co. and Kentucky Silvery, 8%	26.30	to	26.80
Jackson Co. and Kentucky Silvery, 10%	28.30	to	28.80
At Pittsburg, f. o. b. cars—			
No. 2 foundry	$22.85	to	$23.85
Gray forge	19.85	to	20.85
Bessemer iron	20.85	to	21.85
Ferro-manganese			80.
Muck bars	30.	to	31.
Iron bars	1.60	to	..

Cast-iron Pipe—
New York—Car'oad lots, net tons, 6-in., at tidewater, $32.
Chicago—4-in. water pipe, $32.50; 6-in. and larger, $31.50; with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—
Asphaltum:
Ventura and other California asphalts, $19 to $21 per ton at New York; Trinidad refined, $20 to $25 per ton; Venezuela asphalt, $25 to $99 per ton; Bermuda asphalt, $25 to $30.
Cement:
Rosendale or Natural, in wood, 95 cts. per bbl.; Portland domestic, in sacks, $1.20 to $1.30; in wood, $1.50 to $1.60; German Portland, $1.90 to $2.10.
Copper:
Lake, 21.75 to 22.50 cts.; electrolytic, 21.50 to 22.00 cts.; casting, 21.25 to 21.75 cts.
Lead:
New York, spot, 5.85 to 5.95 cts.
Spelter:
New York, spot, 6.20 to 6.30 cts.
Tin:
New York, spot, 42.85 to 43.25 cts.
Tar:
New York, $5.85 to $6 per bbl.
Pitch:
New York, $3.20 per bbl.

LUMBER—
New York, wholesale prices:
Piling—Spruce, ordinary cargoes, 6 to 7 cts.; oak, 14-in. butt, 40 to 50 ft., 19 cts.; 50 to 55 ft., 22 cts.; 55 to 60 ft., 23 cts.; 60 ft. and up, 25 cts.; pine, 60 to 65 ft., $8.50; 65 to 70 ft., $9.50; 70 to 75 ft., $10.50; 80 ft. and up, $16.
Railroad ties—Yellow pine, 6 × 9 ins. × 8 ft., 67 to 69 cts.; 6 × 8 ins. × 8 ft., 62 to 64 cts.; 7 × 9 ins. × 8 ft., 75 to 77 cts.; 7 × 8 ins. × 8½ ft., 74 to 75 cts.; 7 × 9 ins. × 8½ ft., 79 to 80 cts.

INDUSTRIAL NOTES.

THE JEFFREY MANUFACTURING COMPANY, Columbus, Ohio, has established a new Canadian Branch Office in Montreal, at Lagauchetiere and Cote Sts.

THE ENTERPRISE CONSTRUCTION CO., Elkins, W. Va., is the name of a new company recently incorporated for the construction of steam and electric railroads.

THE DUFF MANUFACTURING CO. has received the contract for furnishing each car of the Cleveland Electric Ry. Co. with a jack as part of the regular equipment.

THE SANDUSKY PORTLAND CEMENT CO. reports receiving the contract for supplying its Medusa waterproof compound for the animal building at the Cincinnati Zoo.

THE SCHUTTE & KOERTING COMPANY, 145 Oliver St., Boston, Mass., has just closed a contract with the Boston Elevated Railway Company for 73 of the Schutte extra heavy automatic stop and check, or non-return valves, for different power stations in Boston. This makes a total of about 90 Schutte valves the Boston Elevated Railway Company is using.

THE CHICAGO BRASS COMPANY, whose works are situated at Kenosha, Wis., has recently concluded the purchase of an Allis-Chalmers engine and generator outfit for addition to its present plant. The new units are comprised in a 20 & 42 × 42 Reynolds Corliss cross compound engine of the heavy duty type, direct connected to an Allis-Chalmers 550 KW. engine type generator, 240 volts, which will operate at a speed of 100 r. p. m. The receiver for the engine is provided with a connection from which steam may be taken for heating purposes. The engine will have long-range gear and double eccentrics on both sides. A belt rider safety stop will be provided for the governor.

UNITED CEMENT MACHINERY MANUFACTURING COMPANY has been incorporated, with principal offices at Columbus, Ohio, for the purpose of manufacturing concrete block, brick and all other kinds of concrete machinery, under the patents of the Harmon S. Palmer Hollow Concrete Block Company, of Washington, D. C.; The Winget Concrete Machine Company, of Columbus, Ohio, and The Cement Machinery Manufacturing Company, of Burlington, Iowa. The object of this company is to give the public the highest grade of concrete machines possible to be produced under basic patents, thereby insuring them absolute protection against infringement suits, etc.

THE DAYTON PNEUMATIC TOOL COMPANY, Dayton, Ohio, at a meeting of the stockholders on Tuesday, Oct. 16, elected the following directors: Wm. W. Price, David O. Holbrook, R. E. Condit, G. L. Wagner and F. W. Buchanan. Wm. W. Price was elected President and Treasurer; David O. Holbrook, Vice-President, and F. W. Buchanan, Secretary and General Manager. The company's reports show a large increase in orders, with such a growing demand for the Dayton Hammer that it has within the past six months doubled its capacity, and is now in a position to make prompt delivery on orders for any of its various size tools.

WARREN BROS. CO., Boston, report the following as a partial list of recent sales of bitulithic pavement: An additional contract for 37,000 sq. yds. has been awarded the Texas Bitulithic Co.; the Atlantic Bitulithic Co., of Spartansburg, S. C., has received a contract for 25,000 sq. yds.; the Southern Bitulithic Co. will construct 5,400 sq. yds., in addition to the contract recently awarded, a contract for 4,451 sq. yds of bitulithic has been awarded the Warren Bituminous Paving Co., at Halifax, N. S.; a contract for 2,145 sq. yds. of bitulithic has been awarded the Warren Bituminous Paving Co., of Toronto, Ont.; the Town Council of Woodbury, N. J., has awarded to the Standard Bitulithic Co., of New York, a contract for 6,175 sq. yds.; the same company has been awarded a contract for 17,000 sq. yds. in Scranton, Pa.; a contract for 22,000 sq. yds. of bitulithic has been awarded the Texas Bitulithic Co., of Dallas.

THE CROCKER-WHEELER COMPANY reports the following partial list of recent sales: Marine Engine & Machine Co., Harrison, N. J., four 25-HP., 230-volt D. C. motors; American Car & Foundry Co., Berwick, Pa., one 500-KW., 250-volt, 100 r. p. m., D. C. generator; Van Wagoner Construction Co., New York, two 100-KW., 250-volt, 250 r. p. m. and one 50-KW., 250-volt, 275 r. p. m. D. C. generators; Lawrence Duck Co., Lawrence, Mass., one 170-HP., 230-volt, shunt-wound D. C. motor; Brown-Lipe Gear Co., Syracuse, N. Y., one 100-KW., 257 r. p. m., 240-volt, engine type A. C. generator; Baldwin Locomotive Works, Philadelphia, Pa., four 175-KW., 250-volt, 100 r. p. m. D. C. generator, driven by Diesel engine; Standard Oil Co., New York, one 100-KW., 125-volt D. C. generator, driven by Ames engine;— Sandusky Portland Cement Co., Sandusky, Ohio, two 400-KW., 440-volt A. C. generator and one 100-KW., 125-volt, 250 r. p. m. D. C. generator; and W. & J. Knox Net & Twine Co., Baltimore, Md., one 750-KW., 250-volt, 100 r. p. m. D. C. generator.

TRADE PUBLICATIONS.

FEED-WATER PURIFIERS.—F. E. Keyes & Son, 20 Broad St., New York City.

This is a pamphlet describing the "Advance" feed-water purifiers for preventing scale in boilers.

PUMPING MACHINERY.—Weinman Machine Works, Columbus, Ohio.

This is a folder illustrating and briefly describing boiler feed pumps, mine pumps, vacuum pumps and air compressors.

WATER-PROOF COMPOUND.—Sandusky Portland Cement Co., Sandusky, Ohio. Paper; 3½ × 6¼ ins.; pp. 16.

The "Medusa" waterproof compound for waterproofing mortar and concrete is very briefly described. Many testimonials are given.

CEMENT WATERPROOFING.—The Waterproofing Co., 151 West 28th St., New York City. Paper; 3½ × 6¼ ins.; pp. 8; illustrated.

The Winslow system of waterproofing with hydrolithic cement is described, together with its advantages.

BLOCKS.—W. W. Patterson Co., 54 Water St., Pittsburg, Pa. Catalogue No. 2. Paper; 4½ × 7 ins.; pp. 40; illustrated.

This catalogue describes, especially, extra heavy blocks for bridge erection, oil wells, etc. Prices and sizes are given.

STEAM TRAPS.—Joseph Dixon Crucible Co., Jersey City, N. J. Paper; 5 × 7 ins.; pp. 29; illustrated.

This pamphlet gives an illustrated description of several varieties of steam traps, together with suggestions from W. H. Wakeman, steam engineer and author.

WIRING SUPPLIES.—Stanley G. I. Electric Mfg. Co., Pittsfield, Mass. Bulletin No. 615. Paper; 5¾ × 9 ins.; pp. 4; illustrated.

This pamphlet is devoted to flush receptacles and attachment plugs. The list prices of these supplies are also given.

CAST-IRON PIPE.—Central Foundry Co., 116 Nassau St., New York City. Catalogue and Price List "B." Cloth, 4¼ × 6¾ ins.; pp. 211; illustrated.

This catalogue lists with price all sizes of standard, medium and extra heavy cast-iron pipe, fittings, plumbers' iron work, service boxes, etc.

WHEELBARROWS.—Sterling Wheelbarrow Co., 238-246 Oregon St., Milwaukee, Wis. Catalogue C. Paper; 6 × 9 ins.; pp. 12; illustrated.

The Sterling roller-bearing barrows are described in this catalogue. They are made in 13 different styles and seven different sizes, both of wood and metal.

DERAILS.—Hayes Track Appliance Co., Geneva, N. Y. Circular No. 43. Paper; 8 × 10½ ins.; pp. 8; illustrated.

Cuts, showing the Hayes derail as applied to railroad tracks about Chicago, Ill., make up the greater part of this circular. The number of Hayes derails in use on these roads is noted.

HOISTING APPARATUS.—Newhall Chain Forge & Iron Co., 9-15 Murray St., New York City. Paper; 6 × 9 ins.; pp. 12; illustrated.

Details regarding the manufacture and use of crane, block and hoisting chains are given in this booklet. Illustrations and sizes of hooks and shackles are also included.

CONCRETE BLOCKS.—The American Hydraulic Stone Co., Denver, Colo. Paper; 6 × 9¼ ins.; pp. 76; illustrated.

The Ferguson two-piece system of building with concrete blocks, which give hollow walls, is described. Much of the catalogue is devoted to descriptions and illustrations of buildings constructed under this system.

AIR LIFTS.—Hudson Engineering & Contracting Co., 92-94 William St., New York City. Bulletins Nos. 51, 52, 53 and 54. Paper; 6½ × 9 ins.; illustrated.

The Bacon patent air lift system for pumping water is described. Many illustrations of plants using this system are given, together with the theory on which the system works.

STEAM PUMPS.—A. S. Cameron Steam Pump Works, Foot East 23d St., New York City. Catalogue No. 34. Paper; 3¼ × 5¾ ins.; pp. 52; illustrated.

The Cameron pump is single-acting, and is made in sizes from 8 to 600 gals. per min. for various service. The catalogue contains tables giving prices and general dimensions of the different styles of pumps.

WATER METERS.—Pittsburg Meter Co., East Pittsburg, Pa. 4-page circular, 6 × 9 ins.; illustrated.

This company having recently entered upon the manufacture of meters of the velocity or inferential type, it has issued a brief circular describing the "Eureka" meter, as its new meter is called. The circular states that the meters are especially adapted for measuring large and rapidly flowing volumes of water, such as supplies for hydraulic elevators, street sprinkler cars and railroad stand-pipes.

VACUUM CLEANING PLANTS.—The Baldwin Engineering Co., New York City. Paper; 7 × 10½ ins.; pp. 20; illustrated.

Combination sweeper and scrubber plants for renovating and cleaning the interior of buildings by the vacuum process, are here illustrated and described. Two large apartment houses equipped with these plants are shown, and there is one portable outfit illustrated.

CYANIDING MACHINERY.—Blaisdell Co., 334 Pacific Electric Bldg., Los Angeles, Cal. Catalogue F. Paper; 6 × 9¼ ins.; illustrated.

This catalogue describes the Blaisdell system of automatic cyaniding machinery for handling sand in cyanide plants. The system consists of series of conveyors which automatically distribute the material being treated.

ELECTRIC RAILWAYS.—The Roberts & Abbott Co., Cleveland Ohio. Paper; 4 × 9 ins.; pp. 36; illustrated.

This publication discusses the duties of a consulting and supervising engineer for electric railways, first with respect to proposed railways, and second with respect to existing properties. A number of illustrations of engineering work carried out by the Roberts & Abbott Co., as engineers, are shown.

PORTLAND CEMENT.—Wm. G. Hartranft Cement Co., Broad and Chestnut Sts., Philadelphia, Pa. Paper; 6 × 9¼ ins.; pp. 82; illustrated.

The catalogue is devoted almost exclusively to illustrations of buildings, etc., in whose construction Portland cement was largely used. Specifications for cement, as adopted by the American Society for Testing Materials, are appended.

RAILWAY MOTORS.—Allis-Chalmers Co., Milwaukee, Wis. Bulletin No. 1053. Paper; 8 × 10½ ins.; pp. 24; illustrated.

Type "R" motors and type "S" controllers for use with these motors are described. The motors are made in three sizes, 35 HP., 50 HP. and 75 HP., for 500-650 volt direct current circuits. Tables and line cuts giving the principal dimensions of these motors, as well as curves of efficiency, tractive effort, speed and horsepower, are contained in the bulletin.

WATER AND GAS SERVICE BOXES.—Milern Iron Works, Quincy, Ill. Paper; 3¼ × 8¾ ins.; pp. 12; illustrated.

Among the claims for the new service box described in this catalogue are: An unbreakable top, preventing filling with dirt; adjustability or extension of the box without digging; and impossibility of shifting of the bottom section from the stop-cock. The same company supplies a combination shut-off rod and key, which can be used where two or more styles of service boxes have been installed. One end of this rod is rectangular and shaped for the "Quin-See" box, and the other end is fitted with an ordinary clamp for a "Peerless" or Buffalo box.

ELECTRIC SUPPLIES.—General Electric Co., Schenectady, N. Y. Eleven publications. Paper; illustrated.

Of the eleven publications, nine are bulletins with the following numbers and titles: No. 4,456, on wrought copper cable terminals; No. 4,457, on parts of arc headlights; No. 4,459 on feeder regulators; No. 4,460, on parts of constant D. C. enclosed arc lamps; No. 4,461, on G. E.-78 railway motors; No. 4,462, on variable speed D. C. motors with commutating poles; No. 4,463, on carrier bus arc panels; No. 4,464, on polyphase induction motors; No. 9,143, on type H transformers. There is a price list, No. 5,154, relating to tantalum lamps, and a supply catalogue, No. 7,602, of the parts of D. C. automatic circuit breakers.

METER AND OTHER SEALS.—The Safety Meter Lock Co., Columbus, Ohio. Paper; 6 × 9¼ ins.; pp. 20; illustrated.

The water and gas meter seal put on the market by this company a few years ago has been developed for application to car doors and a variety of other locks. A considerable number of illustrations show the seals in question on various makes of gas and water meters, to each of which it has been adapted as necessary. The seals are made of tough metal and the locking spring is placed in the breakable sealing key, so that the spring is renewed each time the seal is used. The seal is described in the catalogue as follows:

The seals may be described as having a body, or case, consisting of two interlocking members, which, when placed in position about the union or connection to be sealed, are locked together and securely fastened by the insertion of the sealing key. Once inserted, this key cannot be withdrawn or the connection exposed without breaking. The key is made of brittle metal and the usual method of breaking it is by striking it a sharp blow with some suitable instrument when the body will immediately be released for removal. The seal is then relocked into position by the insertion of a new sealing key.

ELECTRIC MOTORS.—The Emerson Electric Mfg. Co., St. Louis, Mo. Booklet No. 4440. Paper; 3½ × 6 ins.; pp. 12; illustrated.

This booklet illustrates and describes both alternating-current motors and direct-current motors; it shows them connected to exhaust fans, blowers, lathes, sewing machines, air compressors and pumps.

BOILERS.—Kewanee Boiler Co., Kewanee, Ill. Catalogue No. 40. Paper; 5 × 7½ ins.; pp. 165; illustrated.

This catalogue is intended for the heating trade and architects, although the tubular boilers described are exactly the same as those for power. Boilers using hard or soft coal, or wood, and employed for steam or hot water are illustrated and described; also the different forms of radiators used in connection with them.

ELECTRICAL APPLIANCES.—Chapman Electric Neutralizer Co., Portland, Maine. Bulletin No. 26. Paper; 7½ × 9½ ins.; pp. 2; illustrated.

The appliance here described is for removing static electricity from woolen, cotton, silk and paper mills; also from cards, frames, cutters, etc. It consists, in principle, of neutralizing the charge in the material effected by an opposing charge picked out of an alternating-current of its own selection.

STEAM FITTINGS AND IRON WORK.—Donegan & Reilly, New York City. Cloth; 5½ × 8 ins.; pp. 306; illustrated.

This is a general catalogue, treating of supplies for the boiler shop, machine shop, coppersmith, steam fitter, sheet-iron shop, brass foundry and ship joining shop. Electrical outfits, pneumatic despatch tubes, and rubber goods are also given attention. In nearly every case illustrations of the supplies are given, but owing to the great variety of subjects treated, the descriptions are necessarily brief.

PUMPS.—Roth Mfg. Co., Columbus, Ind. Paper; 5 × 6½ ins.; pp. 35; illustrated.

The principles and construction of the Columbus impeller pump are given in this catalogue. The pump consists of a series of screw propellers located at intervals along a shaft extending into a cased well, and a series of "retarders" or stationary guide vanes located between successive propellers. A power head at the top of the well is connected to this shaft which is rotated at high velocity when the lower propellers are submerged. On account of the absence of bearings and valves the pump is claimed to be adapted for handling semi-liquid materials, such as malt, mash, mud, syrups, etc. It is also recommended by its makers in ditching, pier-building, and coffer-dam work.

COMBINATION SKYLIGHT AND VENTILATOR.—The Burt Mfg. Co., Akron, O. Paper; 3¼ × 6 ins.; pp. 20; illustrated.

In the ventilator which is the subject of this catalogue, the ordinary flat damper is replaced by a telescopic or sliding sleeve arrangement which leaves the air shaft always entirely unobstructed and affords no surface on which dust is liable to collect only to be shaken off into the room below later on. By closing the damper the ventilator is rendered storm-proof. The top of the ventilator is made flat and is covered by a heavy sheet of wire glass set in a groove with a waterproof cement joint. Below the glass is a trough to catch any condensation water. Such water is passed to the outside of the ventilator through holes provided for the purpose. The ventilator is supplied, if desired, with a conical metal top. Testimonials and a partial list of users are given.

ELECTRIC EQUIPMENTS.—Fort Wayne Electric Works, Fort Wayne, Ind. 4 Bulletins. Paper; 8 × 10½ ins.; illustrated.

Of the four bulletins, No. 1082 is devoted to the multiple alternating-current street arc lighting system; this system provides an inexpensive method of lighting small towns and isolated sections of large cities. Bulletin No. 1083 deals with induction motors; the motors here presented are of the multiphase type and are designed for potentials of 110, 220, 440, 550, and 2,080 volts, and for frequencies of 25, 40 and 60 cycles. Bulletin No. 1084 illustrates and describes switchboard panels for multiphase generators; these panels are for use on two- or three-phase systems of either 1,150 or 2,300 volts, and are limited to machines having a current capacity of not more than 150 amp. at 2,300 volts. Bulletin No. 1085 is devoted to integrating switchboard wattmeters; these instruments are of the inductive type, and are guaranteed to register accurately on all loads regardless of the power factor of the circuit.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 158.

CIVIL SERVICE COMMISSION.

CITY OF PHILADELPHIA.

COMPETITIVE EXAMINATION FOR CHIEF OF THE BUREAU OF WATER.

A competitive examination for the position of Chief of the Bureau of Water, of the City of Philadelphia, will be held at room 875, City Hall, Philadelphia, on Tuesday, December 4, at 9 a. m. The salary is $6,000 a year.

Applicants must be citizens of the United States, 30 years of age or over. Must be competent civil engineers with executive capacity, and preferably with experience in the conduct of water-works. Must have technical knowledge equivalent to that required for graduation from a technical school of good standing. Need not be residents of the City of Philadelphia.

Blank forms of application may be had upon the personal request of the applicant at the office of the Civil Service Commission, Room 875, City Hall, Philadelphia, and must be filed on or before Monday, December 3. Further particulars will be furnished upon written request.

Notice the postponement of the date from October 31 to December 4.

CIVIL SERVICE COMMISSION.
18-1t City of Philadelphia.

UNDERGRADE CROSSING.

Williamsport, Pa.

Sealed proposals will be received at the office of the City Clerk, until Saturday, 12 o'clock noon, December 1, 1906, for the construction of an undergrade crossing under the P. & E. R. R. tracks at Campbell Street.

Each bid or proposal must be accompanied by cash or a certified check on a Williamsport bank for the sum of $1,000, made payable to the order of the City Treasurer of Williamsport, Pa. Said cash or check being deposited as a guarantee that the bidder or bidders will enter into contract within ten days after the acceptance of their bid and furnish bond for the complete construction of the work to the amount of 50% of the contract price.

The contract consists of the following approximate quantities: 375,000 pounds of steel, 1,070 cubic yards concrete, 220 feet of 4-ft. sewer, 100 feet 24-inch sewer, 100 feet 15-inch sewer, 2 manholes, 14,000 square feet of cement sidewalk, 400 feet drain tile, 400 square yards of brick pavement, 500 cubic yards excavation, 220 feet dressed stone, 20 blocks cut stone.

Plans and specifications for the work can be seen and proposal blanks can be had at the office of the City Engineer. All proposals submitted shall be addressed to the City Clerk of Williamsport, Pa., endorsed "Campbell Street Undergrade Crossing." The right is reserved to reject any or all bids by the Railroad Committee of Councils.

J. J. GALBRAITH,
City Clerk.
JAMES F. FISHER, City Engineer. 18-2t

BRICK PAVING.

Port Chester, N. Y.

Sealed bids for 9,700 sq. yds. brick pavement on North Main Street, with curb setting and storm sewers, will be received until Monday, November 12, at 8 p. m.

For specifications, address

J. A. KIRBY & SON, Engrs.,
18-1t Port Chester, N. Y.

OFFICE, COMMISSIONERS DISTRICT OF COLUMBIA, Washington, Oct. 27, 1906.—Sealed proposals will be received at this office until 12 m., Nov. 27, 1906, for constructing sewers in the District of Columbia. Forms, specifications and necessary information may be obtained at Room 43, District Building, Washington, D. C. HENRY B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C. 18-2t

OFFICE OF THE COMMISSIONERS OF THE DISTRICT OF COLUMBIA, Washington, D. C., October 29, 1906.—Sealed proposals will be received at this office until 2 o'clock p. m., on November 12, 1906, for furnishing the District of Columbia with 5,000 barrels, more or less, of Portland cement in wood, and 5,000 barrels, more or less, of Portland cement in cloth. Specifications, blank forms of proposal and all necessary information may be obtained at this office. HENRY B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C. 18-1t

SITUATIONS OPEN

WANTED—Several structural detailers, permanent positions. HINKLE IRON CO., 534 W. 56th St., New York. 18-1t

WANTED—At once, ten good draftsmen. Apply Bridge and Construction Dept., THE PENNSYLVANIA STEEL CO., Steelton, Pa. 18-2t

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